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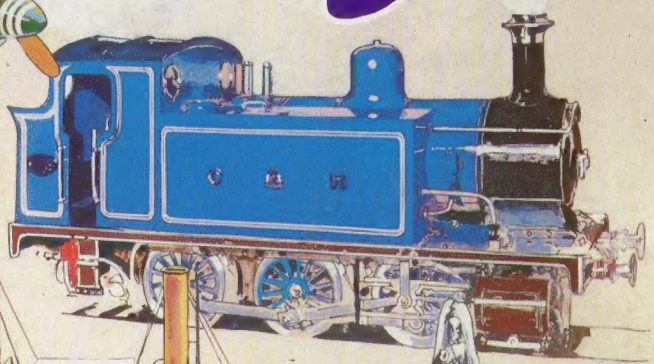
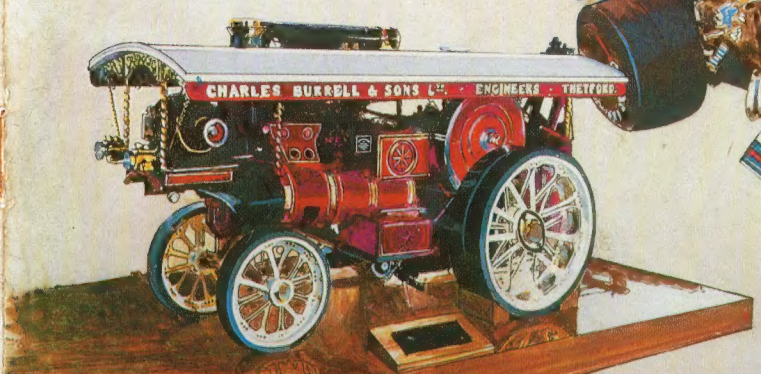


Exhibition Souvenir Guide



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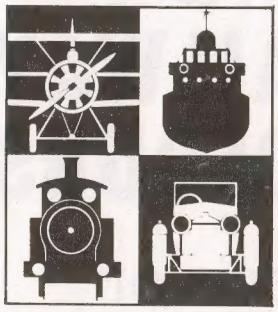

48th Model Engineer Exhibition

Conference Centre, Empire Way, Wembley

4th-13th January 1979, excluding Sunday 7th

Hours of opening
Daily 10 a.m. - 7 p.m.

Admission: £1.00 Adults 50p Children

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On the cover —
Is the poster for this year's Exhibition.

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EIGHTY YEARS ON

NOT everyone who visits the Model Engineer Exhibition will be aware that the late Percival Marshall who founded the Exhibition in 1907, had nine years earlier — in 1898, launched the MODEL ENGINEER as a monthly magazine. In that same year he also was responsible for founding the SOCIETY OF MODEL AND EXPERIMENTAL ENGINEERS whose home in South London still commemorates its founder Chairman in its name, Marshall House.

So it is with a very special sense of considerable historical pride that we are able to stage this the 48th Exhibition in the series — seventy-two years after it was first founded, and that is a very long time ago indeed!

There are those who criticise the Model Engineer Exhibition for spanning all the modelling disciplines, and there are those who say that one can see more models on display at a local modelling society's weekend exhibition.

The former criticism, however, we would answer by explaining that right from the outset the Model Engineer Exhibition always set out to widen its appeal to those in other modelling disciplines. In so doing it has, we know, introduced tens of thousands of people to pure model engineering who might otherwise never have visited the exhibition and been inspired by it.

We would remind the critics of the latter point that the Exhibition has always centred around the competitive spirit which strives for excellence in the making of a model which deserves the magnificent trophies that have been so generously donated over the years and which this year have been further embellished by new trophies and awards for which we are most grateful. In particular we would like to thank Earl Mountbatten of Burma for the handsome silver cup which will in future be awarded to the winner of the naval ship classes.

At last year's Exhibition, the Woodworker Show proved to be so popular that in order to cope with its expansion it has been necessary to stage the Show as an exhibition in its own right at the Horticultural Society's new hall from November 6 to 10, 1979. Our founder, Percival Marshall, who also launched Woodworker in 1901 would indeed be proud to see that that magazine is now the sponsor of an independent exhibition. We hope that many of our visitors to the Model Engineer Exhibition will also be able to visit the new Woodworker Show in the hall where so many previous Model Engineer Exhibitions were run.

One notable aspect of this year's Exhibition is the much enlarged loan section in which some of the finest models ever made in recent times will be displayed. We take this opportunity of thanking most sincerely the distinguished modellers who have so generously allowed us to show these great models to our visitors.

Each year we receive many helpful ideas and suggestions and we do our best to incorporate as many of these as possible. We hope that you will enjoy every minute of your visit and that you will be able to renew old acquaintanceships and make new friends among the great fraternity of modellers who come to Wembley.

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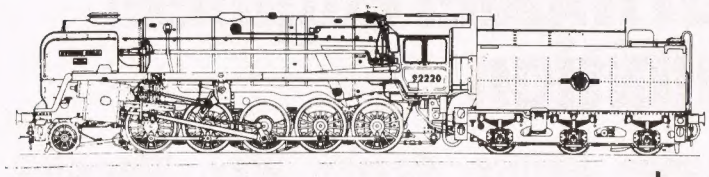

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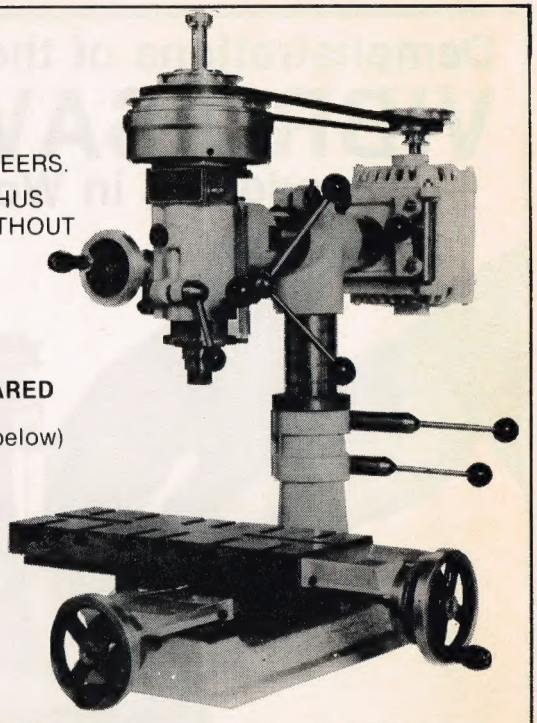
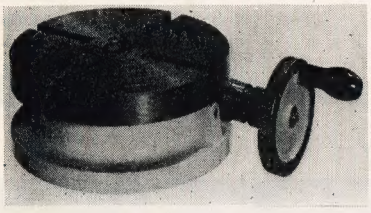


The machine is shown without a belt guard. A totally enclosed guard is available for constructors wishing to fit one.



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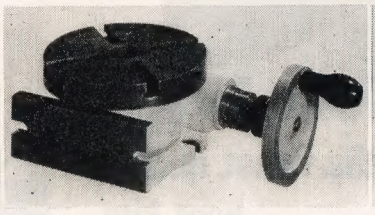

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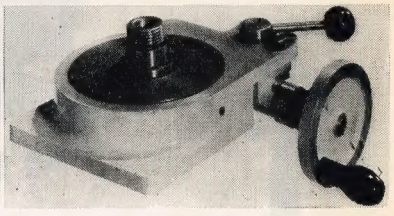

RT3

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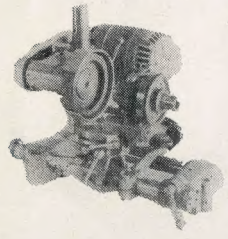

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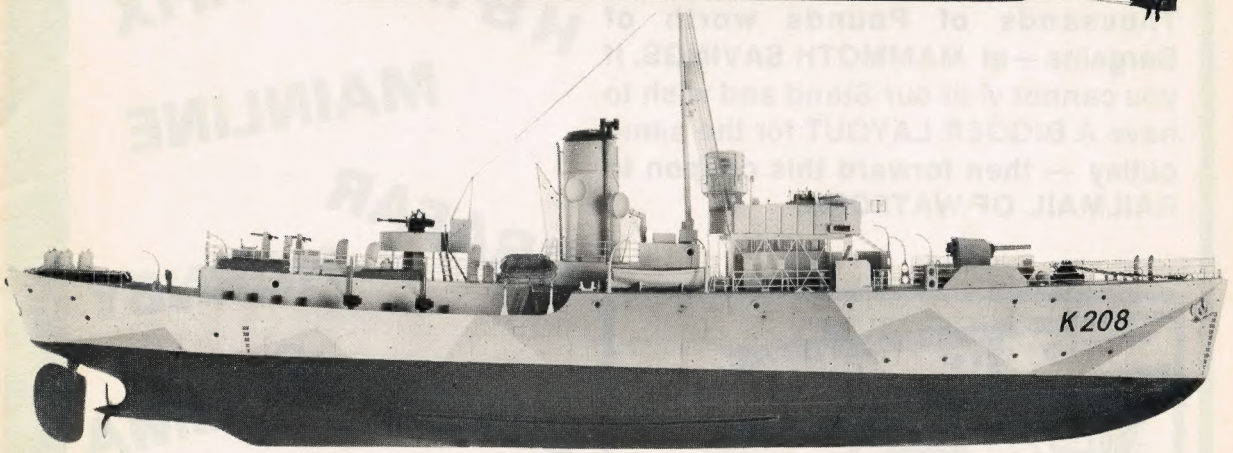

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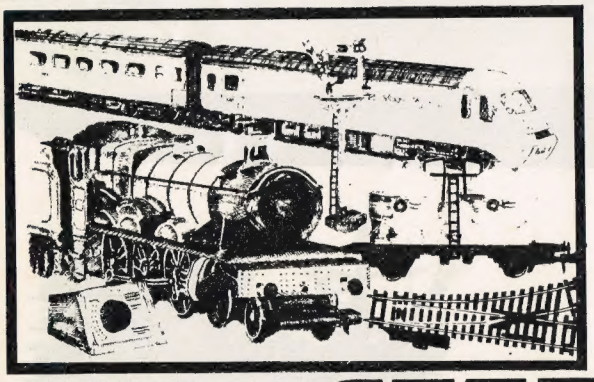

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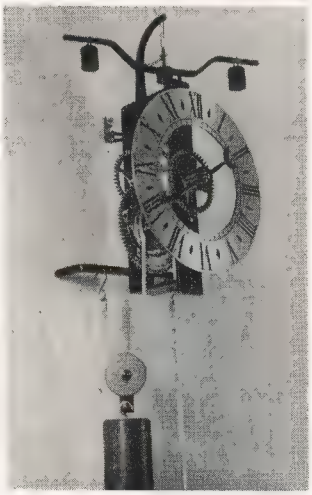

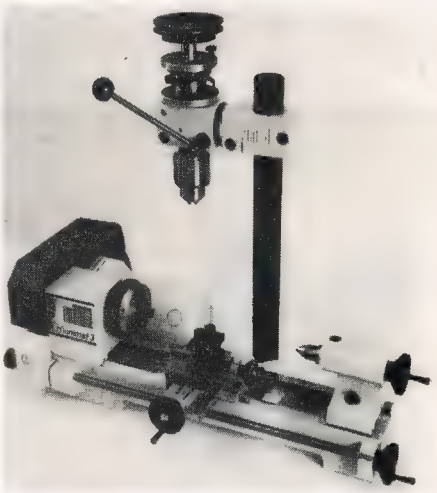

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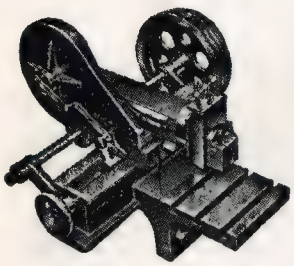

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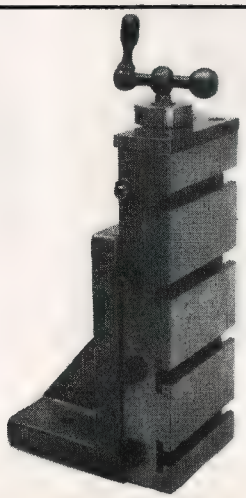

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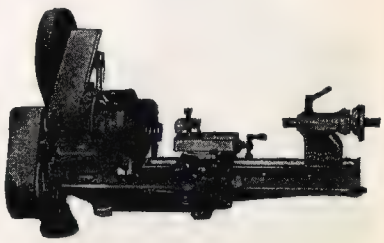

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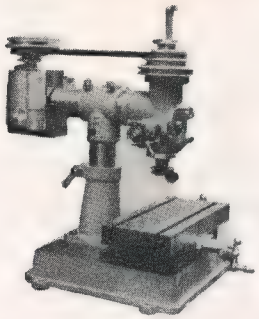

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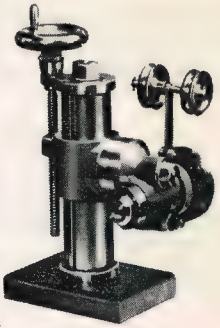

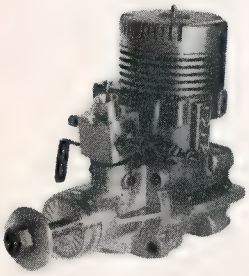

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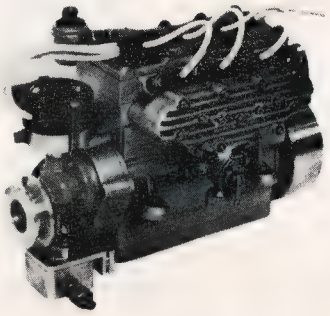

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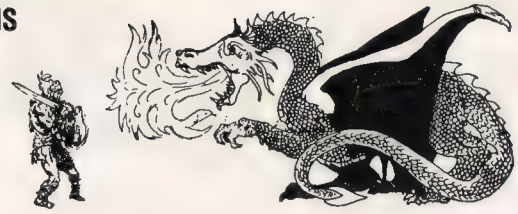

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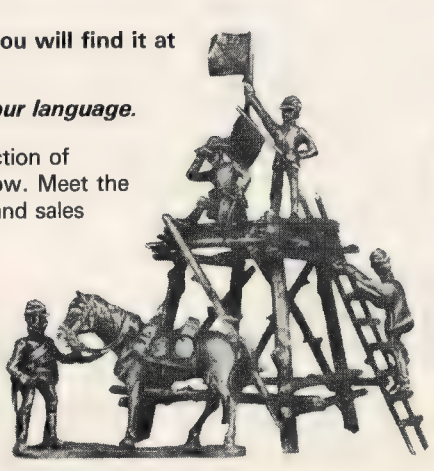

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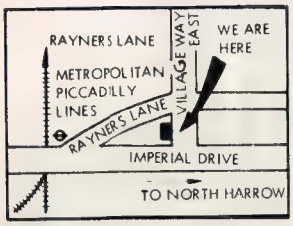

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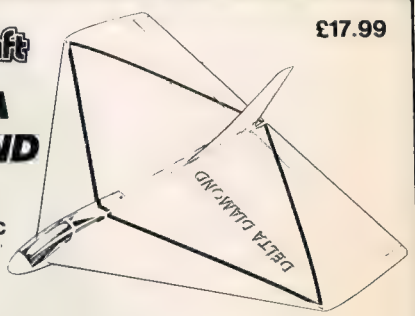

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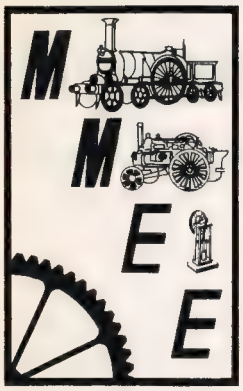

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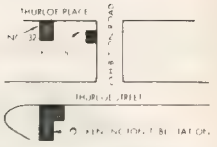

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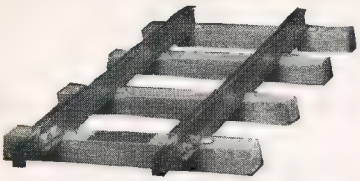

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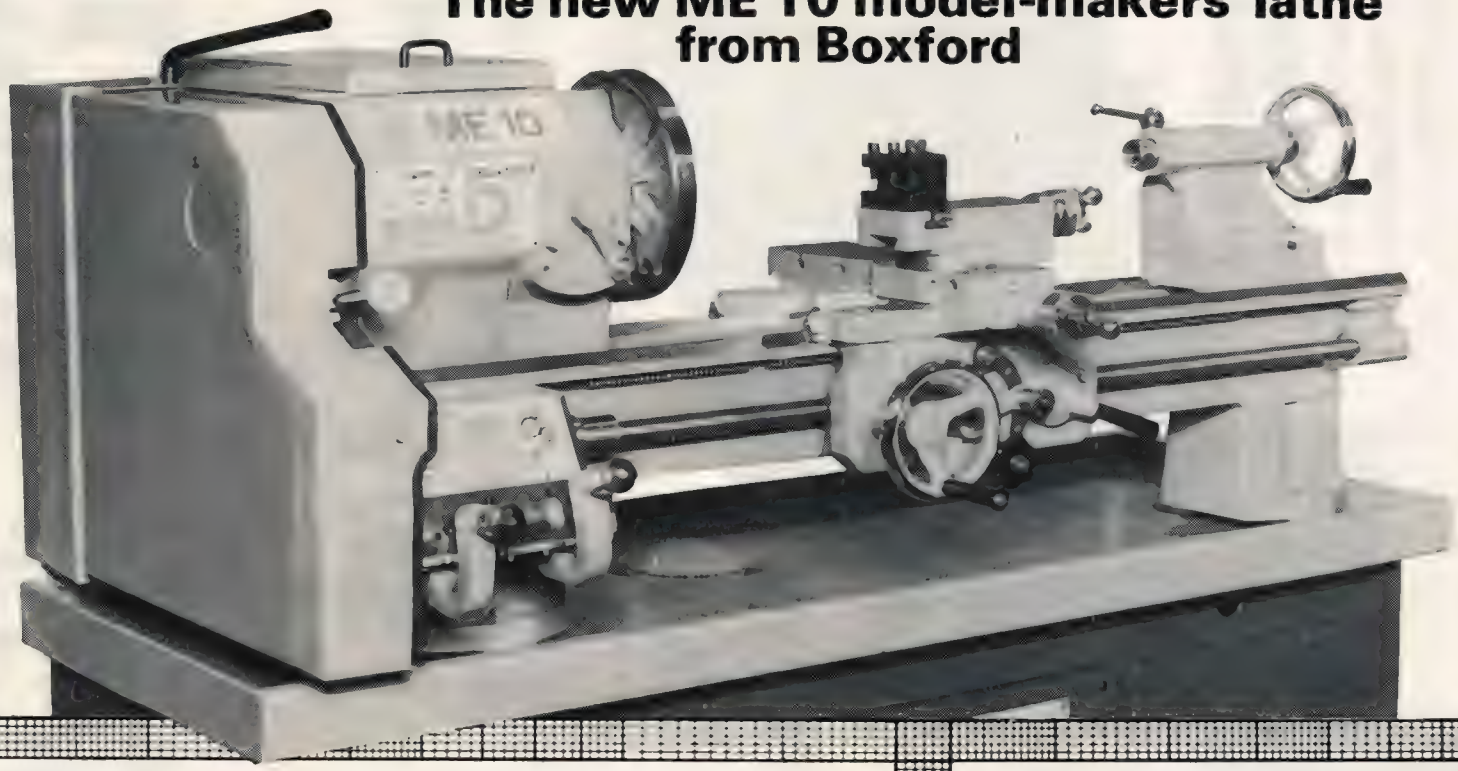
Just what you've always wanted!

The new ME 10 model-makers' lathe from Boxford



The new ME 10 was first unveiled and acclaimed at the Model Engineer Exhibition at Wembley. It offers a capacity of 10" swing and 22" or 28" between centres and a standard speed range of 60-2100 rpm, a low speed version of 38-1300 rpm is also available

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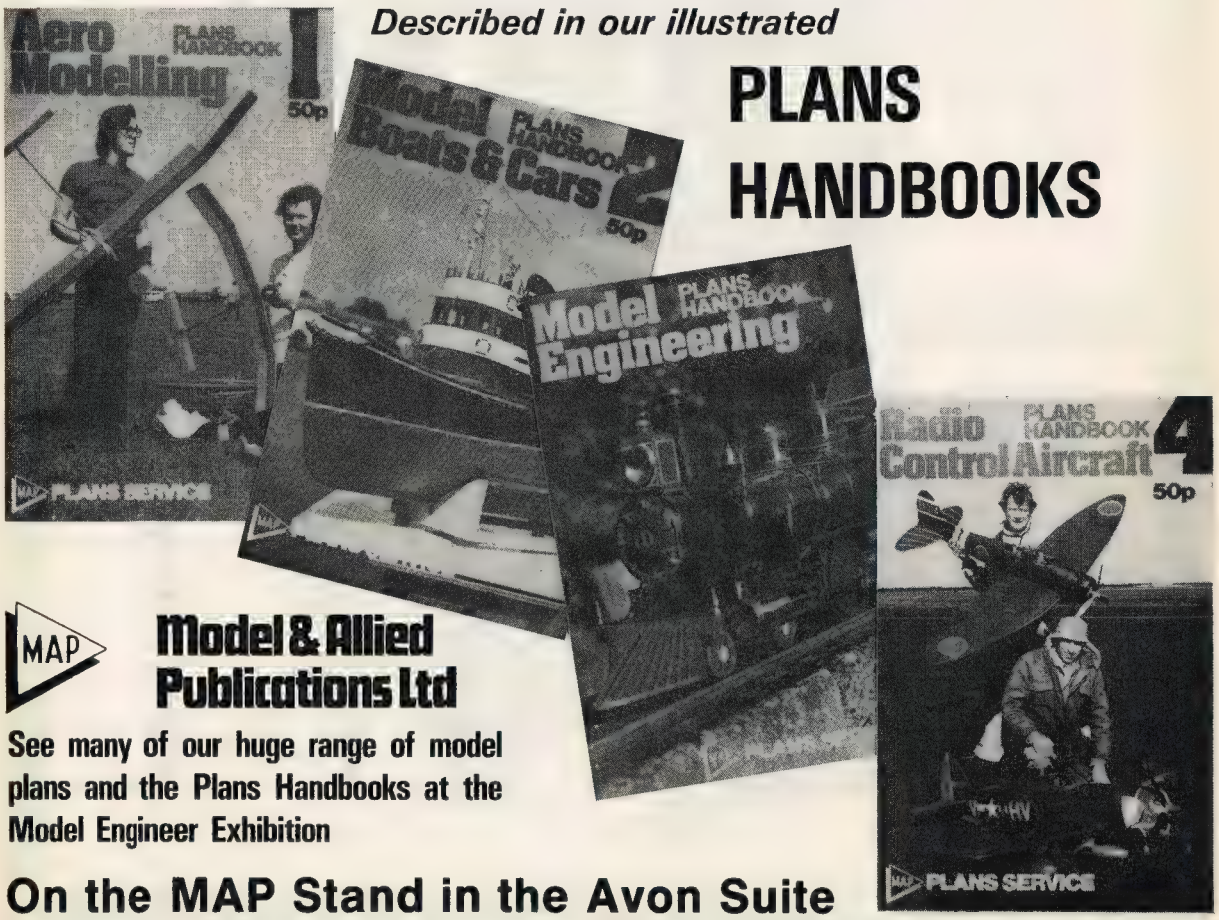

MAP

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See many of our huge range of model plans and the Plans Handbooks at the Model Engineer Exhibition

On the MAP Stand in the Avon Suite

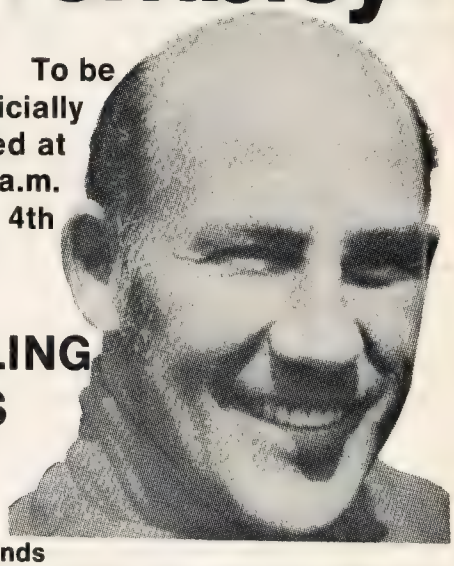
Welcome to Wembley
MODEL ENGINEER EXHIBITION 1979

ONCE again, we warmly welcome the many thousands of modellers who will be visiting the Wembley Conference Centre to see the largest and oldest exhibition of its type staged anywhere in the world.

Model & Allied Publications are proud to have been able to bring together again that wonderful combination of models, demonstrations, live events, lectures, films and trade stands that will, we hope, make this, the 48th Exhibition in the series, truly enjoyable for all who visit it.

To be Officially Opened at 11.30 a.m. January 4th

by STIRLING MOSS OBE



Competition Models

The models and exhibits entered in the competitive classes match the same very high standard of previous exhibitions and to cope with the great diversity of models we have this year invited many more judges to participate. Indeed, the list of judges reads like a *Who's Who* of the modelling world.

It has to be remembered however that not all the model exhibits are entered with the sole reason of winning high accolade. Some modellers enter unfinished models partly to show others the detail that will subsequently be hidden when the model is eventually finished after many hundreds of hours of dedicated work. Others enter models that have particularly innovative construction methods or materials so that other modellers may learn from them.

Activities

Each year the organisers try to vary or increase the number of activities that take place. This year is no exception. It includes the reintroduction of a very popular model railway village layout which will be found in the Greenwich Room. *"Milkwood"*, as it is called, was conceived and engineered by David Rowe. Sadly, it has not been possible to find space for the round-the-pole aeroplane flying circle at this exhibition but a much extended and realistic Model Car Racing Circuit for radio control cars of all kinds is located next to the ever popular model boating pool on the roof of the exhibition hall.

The **Society of Model and Experimental Engineers,** who have jointly just celebrated their 80th birthday with *Model Engineer* magazine, will be exhibiting many of the fine models in the possession of the Society and its members. They will also be demonstrating model engineering techniques on their ever popular stand in the Hampton Room and nearby will be running their live steam passenger carrying locomotives on the balcony overlooking the Greenwich Room. We take this welcome opportunity of thanking S.M.E.E. for the support and encouragement they have given to the *Model Engineer* over these last 80 years and for the invaluable part they have played in helping to stage the Model Engineer Exhibitions over the last 70 years.

On the stands of the many national and local modelling societies will be found fine displays of models whether they be engineering models, aeroplanes, boats or military models and we also take this opportunity of thanking all these organisations for their loyal support and their practical help in the building up of the Exhibition and in the stewarding of it. It can easily be forgotten that this is an exhibition which depends upon the voluntary support of many hundreds of people, without which it would be a physical impossibility to stage an exhibition on this scale.

Trade Stands

The trade stands will have available such a diverse selection of modelling goods and services as to make this truly an Aladdin's Cave both for the committed modeller and for those not yet so firmly entrenched in any of the many specialist sectors of modelling represented at the exhibition.

Unfortunately, due to Sunday trading regulations, it has not been possible for the 1979 Exhibition to be opened on the Sunday of the first weekend of the Show. Because of the enormous popularity and the safety and fire regulations with regard to overcrowding the Conference Centre at any one time, we have this year deliberately restricted the Exhibition to the three main halls and the outdoor events on the roof. It has, however, left space on the circular concourse on the first floor, reached by the stairs in the main entrance foyer and the lifts, for those who wish to sit comfortably and talk with friends or visit the restaurants and bars that are to be found throughout the Wembley Conference Centre.

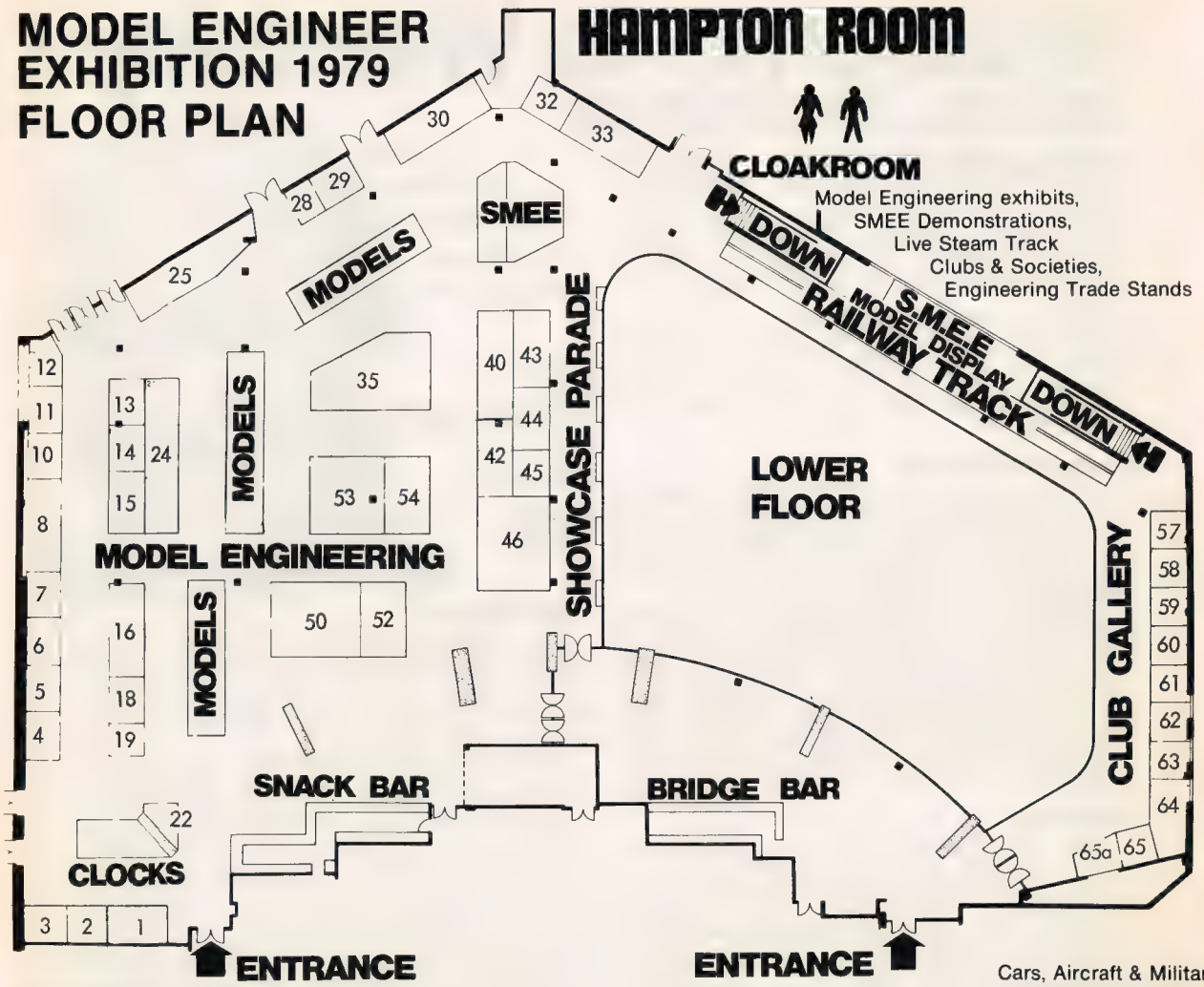
Floorplan

For those visiting the Exhibition for the first time, a study of the Exhibition Floor Plan is strongly recommended. We hope that the much improved signposting will however make it easy to locate those parts of the Exhibition you particularly wish to visit. The **Hampton Room** continues to be the home of the exclusively model engineering model exhibits and trade smallholders and this, of course, includes the railway track on the gallery of the Hampton Room and the modelling societies and preservation trusts.

En route to the Hampton Room, no visitor should fail to visit the **Avon Suite** with its magnificent display of aircraft and military models and its varied and most interesting trade standholders. The ladies will be particularly interested in the Gem Craft section in this room and a warm welcome is extended to all visitors on the stand of Model & Allied Publications, the organisers of the Exhibition. The **Greenwich Room** displays the model boat exhibits, a magnificent steam launch kindly loaned by the Kew Bridge Engines Trust, the model railway village and the wargames. Trade standholders are more varied in this room and include model railway, model boat, military modelling, model wagon building and horological standholders.

So, once again welcome to Wembley and may your visit be a truly enjoyable one.

MODEL ENGINEER EXHIBITION 1979 FLOOR PLAN



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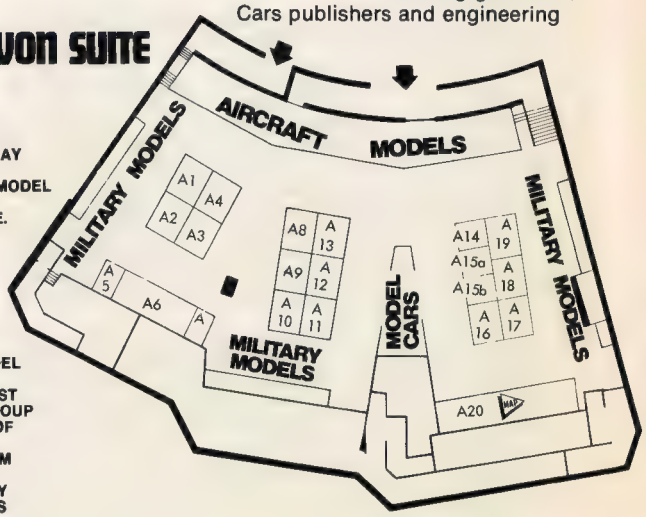
61	WELLING & DISTRICT MODEL ENGINEERS
62	KEW BRIDGE ENGINE TRUST
63	G.W.R. PRESERVATION GROUP
64	SOUTHERN FEDERATION OF MODEL ENGINEERS
65	NATIONAL MODEL MUSEUM TRUST
65a	ASSOCIATION OF RAILWAY PRESERVATION SOCIETIES

Cars, Aircraft & Military Modelling Exhibits, Clubs & Societies, Modelling Trade Stands including gem craft, Cars publishers and engineering

AVON SUITE



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69 J & P STAFFORD
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74 TRAIN TIME
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The following members of our staff will be at the Exhibition on most days and look forward to the pleasure of meeting visitors whenever possible. It is advisable however to arrange any appointment in advance because while the exhibition is on, magazines also have to be produced. We set out below a list of our senior staff.

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The organisers wish to thank most sincerely all those who have co-operated in the task of organising the 48th Model Engineer Exhibition and in particular the societies, clubs and trusts without whose support and enthusiasm it would be impossible to stage an exhibition of this size.

SOCIETIES

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Model Yacht Association
Society of Model Aeronautical Engineers
Model Power Boat Association
Tramway and Light Railway Society
Southern Federation of Model Engineering Societies
British Model Soldier Society
Kew Bridge Engine Trust
Association of Railway Preservation Societies
Society of Harrow and Wembley Model Engineers
Malden & District Society of Model Engineers
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NORTH LONDON S.M.E., 8 BOLTON STREET, PICCADILLY, LONDON W1Y 8AU 57
JOHN PIPER ACCESSORIES LTD., 25 COWLEAZE ROAD, KINGSTON UPON THAMES, SURREY 95
PEMS LIMITED, 12B GROVE ROAD, LONDON E3 5AX A6
PHOENIX MODEL DEVELOPMENTS LTD., THE SQUARE, EARLS BARTON, NORTHAMPTON, NN6 0NA A6
PLAISTOW PICTORIAL, 3 NEW PLAISTOW ROAD, LONDON E15 3JA 68
PLANET MANUFACTURING, 10 NORTHUMBERLAND PARK, LONDON N17 0TX A6
H. R. PLASTOW, THE OLD RECTORY, ALL SAINTS, HALESWORTH, SUFFOLK, IP19 0PB 42
PRECISION PAINTS CO. LTD., P.O. BOX 43, CHELTENHAM, GLOUCESTERSHIRE 32
PRECISION PETITE LTD., & ASBO DRILLS U.K. LTD., 119a HIGH STREET, TEDDINGTON, MIDDLESEX 8/9
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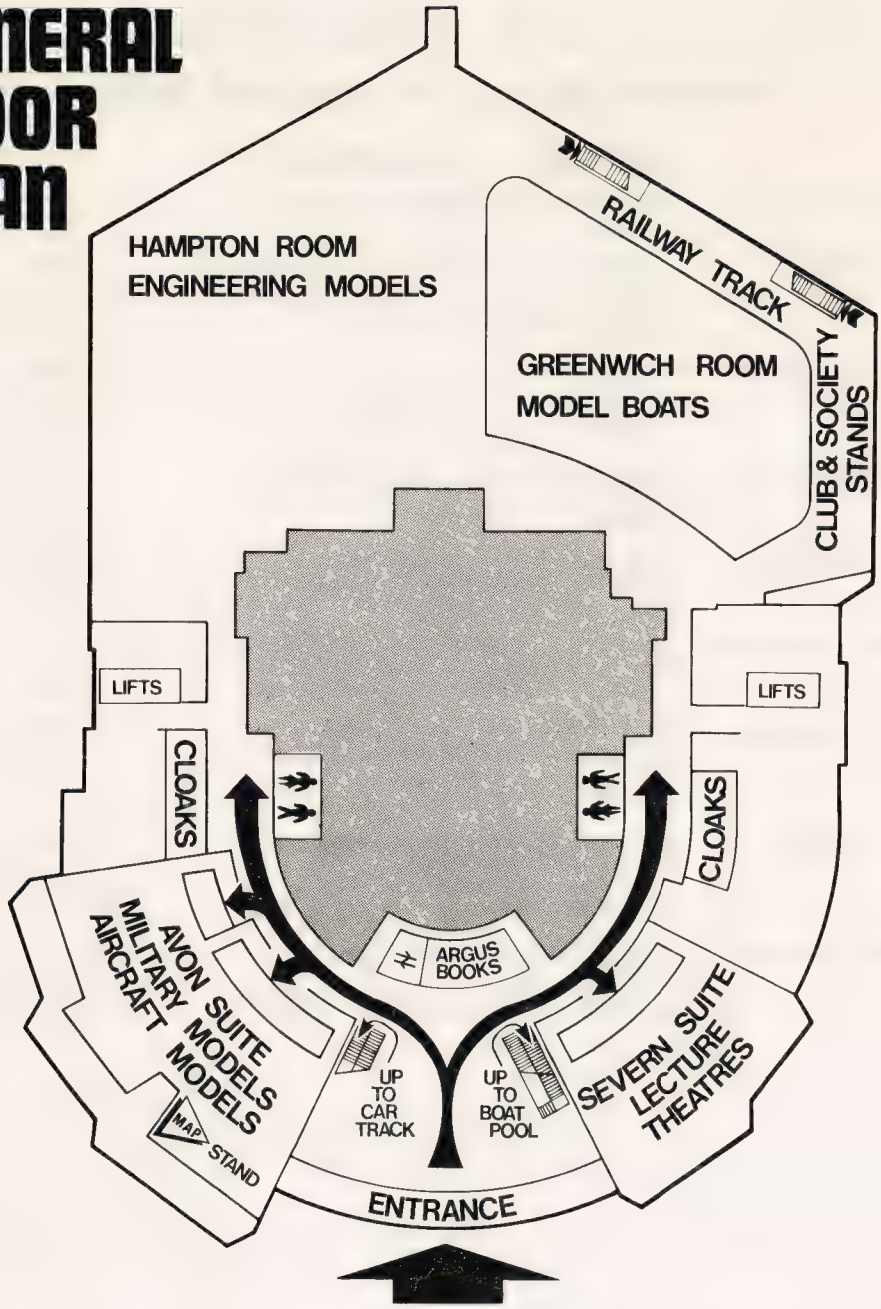
PUFFERS LIMITED, 134A KENTON ROAD, KENTON, HARROW, MIDDLESEX 90
QUERCUS GEMCRAFT, 24 LONDON ROAD, APSLEY, HERTS A10
RAILMAIL OF WATFORD, 67 VICARAGE ROAD, WATFORD, HERTFORDSHIRE 84
RAIL-ROAD SCENIC EXHIBITIONS OF BRADFORD, 11 HORTON GRANGE ROAD, BRADFORD, W. YORKSHIRE BD7 3AH 72/73
R.D.M.S. FACTORY MACHINE TOOL & EQUIPMENT SUPPLIES, 138 MERTON ROAD, WIMBLEDON, LONDON SW19 ..... 2/7
A. J. REEVES & CO., (BIRMINGHAM) LTD., HOLLY LANE, MARSTON GREEN, BIRMINGHAM B37 7AW 46/47/48/49
RHODES FLAMEFAST LIMITED, BRIDGE STREET, PENDLEBURY INDUSTRIAL ESTATE, SWINTON, MANCHESTER 18
R.N.L.I., ROMFORD & DAGENHAM MODEL BOAT CLUB SECTION, 258 CROW LANE, ROMFORD, ESSEX RM7 0HJ 110
SEAGULL MODELS (GB) LTD., 32 THURLOE PLACE, LONDON SW7 ..... 98/99
THE SOCIETY OF MODEL EXPERIMENTAL ENGINEERS, 8 THORNBURY ROAD, LONDON S.W.2 ..... S.M.E.E.
NATHAN SHESTOPAL LTD., 1 GRANGEWAY, LONDON, NN6 2BW 113
J. SIMBLE & SONS, 76 QUEENS ROAD, WATFORD, HERTS .. 102/103
SKYTREX LIMITED, 28 BROOK STREET, WYMESWOLD, LEICESTER 91/92/93

GENERAL FLOOR PLAN



	Stand No.
S.M.A.E. MAURICE HASSELL, TIMBERLEY HOUSE, VAUGHAN WAY, LEICESTER	A18
SOUTHERN FEDERATION of M.E.S., 2 SILVER TREE LANE, GREENFORD, MIDDLESEX	64
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STARCAST MINIATURES, 211 BEXLEY ROAD, NORTHUMBERLAND HEATH, ERITH, KENT	105
STUDIOLITH LTD., ROFFORD, LITTLE MILTON, OXFORD OX9 7QQ	45
TRACTION ENGINE ENTERPRISES, 216 COVENTRY ROAD, HINCKLEY, LEICESTER	10
TRACY TOOLS LIMITED, 58 LONDON ROAD, KINGSTON, SURREY	1
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TRAMWAY & LIGHT RAILWAY SOCIETY, 216 BRENTWOOD ROAD, ROMFORD, RM1 2RP	58
BARRIE VOISEY PLANS, 421 KING STREET, FENTON, STOKE ON TRENT, STAFFS	94
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WELLING & DISTRICT MODEL ENGINEERING SOCIETY, 67 PICARDY ROAD, BELVEDERE, KENT	61

Lectures and Films Timetable
—more things to see and hear

LECTURES — SEVERN SUITE I

THURSDAY 4 JANUARY	**13.00-13.45**	*Spray Painting for Modellers*	Ian Peacock
	16.00-16.45	*Achievements in Railway Preservation*	Captain Peter Manisty
FRIDAY 5 JANUARY	**11.00-11.45**	*Development of Military Modelling*	Roy Dilly
	14.00-14.45	*Armoured Trains for Pendon*	Stewart Hine
	15.00-15.45	*The Severn Valley Railway*	Peter Manisty
	17.00-18.30	*Heckmondwike*	Bob Essery
SATURDAY 6 JANUARY	**13.00-13.45**	*CO_2*	Ian Dowsett
	14.00-15.30	*Strata of War and D-Day*	D. G. Chandler
	16.00-16.45	*The Nene Valley Railway*	Peter Manisty
	17.00-17.45	*London's Living Steam Museum*	Kew Bridge Trust
MONDAY 8 JANUARY	**11.00-11.45**	*Scratchbuilding Military Vehicles*	John Sandars
	14.00-14.45	*The North Norfolk Railway*	Peter Manisty
	15.00-15.45	*Strategy & Tactics*	Brigadier Peter Young
TUESDAY 9 JANUARY	**12.00-12.45**	*The Bluebell Railway*	Peter Manisty
	14.00-14.45	*Questions & Answers on Model Boats*	Vic Smeed
	15.00-15.45	*A reappraisal of some wargame rules*	Charles Grant
WEDNESDAY 10 JANUARY	**14.00-14.45**	*Complication for Simplicity's Sake*	Stewart Hine
	15.00-15.45	*The North York Moors Railway*	Peter Manisty
	17.00-17.45	*Development of Military Modelling*	Roy Dilley
THURSDAY 11 JANUARY	**11.00-11.45**	*Military vehicle scratchbuilding*	John Sandars
	13.00-13.45	*Spray Painting for modellers*	Ian Peacock
	14.00-15.00	*History of Model Aviation in the U.K.*	Alwin Greenhalgh
	16.00-16.45	*The Sittingbourne and Kemsley Railway*	Peter Manisty
FRIDAY 12 JANUARY	**12.00-12.45**	*The West Somerset Railway*	Peter Manisty
	14.00-14.45	*Model Boats – Q & A*	Vic Smeed
	15.00-15.45	*Indoor Model Aircraft*	Reg Parham
	17.00-18.30	*Heckmondwike*	Bob Essery
SATURDAY 13 JANUARY	**11.00-12.30**	*Indoor Model Aircraft*	Reg Parham
	13.00-13.45	*CO_2*	Ian Dowsett
	14.00-14.45	*London's Living Steam Museum*	Kew Bridge Trust
	15.00-15.45	*Cavalrymen without Horses*	Peter Manisty

Lectures

The schedule of lecture times gives details of subjects which cover the whole spectrum of model interests — here is more information on what the visitor can expect to hear in the lecture hall.

Stewart Hine
(2 pm Jan 5)
Will talk on *"Armoured Trains for Pendon"*, about building all-metal coaches in 4 mm scale to the exacting standards of the Pendon Museum; the title relates to the exceptional durability which such coaches need to have, as well as the accuracy and detail required of a museum model.
(2 pm Jan 10)
"Complication for Simplicity's Sake" is about layout design, control and wiring starting from the premise that it is worth building in a considerable amount of complication in order to make the layout itself simple and foolproof to operate.

Charles Grant
(3 pm Jan 9)
Will be speaking on *"A reappraisal of some wargame rules"*. Charles is a world renowned expert on wargame rules and has served on many committees, written books and contributed articles on this subject.

Roy Dilley
(11 am Jan 5 & 5 pm Jan 10)
Development of military modelling over the past 10 years and the introduction of scenic settings, and club activity is Roy's theme.

Reg Parham
(3 pm Jan 12 & 11 am Jan 13)
The history of indoor flying models from its beginnings in the late 1800's, tracing the origins of today's competition models from their development in the U.S.A. will be amply illustrated by demonstrations of flying models in a lively lecture.

John Sandars
(11 am Jan 8 & 11 am Jan 11)
Scratchbuilding Military Vehicles is his subject on how and why he undertakes this form of modelling, illustrated with colour slides of completed models, and a series of black and white slides showing step-by-step construction. Some of the models can be seen on the BMSS stand in the Avon Suite Stand No. A19.

D. G. Chandler MA FRHistS FRGS
(2 pm Jan 6)
"The Strata of Mid-19th Century Warfare" – an outline analysis of grand strategy, strategy, grand tactics, minor tactics and logistics with special reference to the planning of the N. West European Campaign of 1944-45, plus *"Operation Overlord"* — an examination of the planning and conduct of the invasion of Normandy, June 1944 at the strategic and grand tactical levels. Both lectures will be illustrated with 35 mm slides and overhead projector transparencies.

R. J. Essery
(5 pm Jan 5 & 5 pm Jan 12)
Bob will trace the development of 4 mm scale modelling from the 1920's to date and try and show how the hobby has developed from these early days, to the position it is in at present. Followed by 50 slides and a colour sound film of *"Heckmondwike"*.

Peter Manisty
(4 pm Jan 4, 3 pm Jan 5, 4 pm Jan 6, 2 pm Jan 8, 12 noon Jan 9, 3 pm Jan 10, 4 pm Jan 11, 12 noon Jan 12 & 3 pm Jan 13)
"Achievements in Railway Preservation". illustrated by over 100 slides the Chairman of the

Association of Railway Preservation Societies (ARPS), Captain Peter Manisty opens a series of presentations by member societies and outlines the many achievements of the movement over the past 25 years.

'The Nene Valley Railway" by John Jeffery. The Press Officer of the Peterborough Railway Society presents an illustrated talk on the creation of this railway, one of the latest in the success story and the 1874 winner of the ARPS award for an outstanding contribution to Railway Preservations.

'The Severn Valley Railway" is an illustrated talk about this famous line which now runs steam hauled trains over 12½ picturesque miles between Bridgnorth and Bewdley and is the longest all-steam line in the British Isles.

'The North Norfolk Railway" is an illustrated talk about the creation of this delightful section of the Midland and Great Northern Railway between Sheringham and Weybourne — and its trials and tribulations over some nine years before reaching success.

"The Bluebell Railway" is an illustrated talk on the Bluebell Railway — its start and progress. Surely the most famous of the standard gauge preserved railways which runs steam hauled trains five miles through glorious Sussex countryside from Sheffield Park to Horsted Keynes.

"The North York Moors Railway" — an illustrated talk about this Railway, the longest of the preserved railways, operating over 18 miles between Grosmount and Pickering with both diesel and steam trains.

"The Sittingbourne and Kemsley Railway" — Malcolm Burton, the founder and Chairman of the Railway, gives an illustrated talk about this unique project which took over the two mile stretch operated by Messrs Bowaters Paper Company for two miles between Sittingbourne and Kemsley. Of 2 ft 6 in. gauge it carried the Company's wood pulp and finished paper products between Ridham Dock and their mills.

"The West Somerset Railway" is an illustrated talk about this ambitious project which aims to operate from Minehead to Taunton and has already reached Stogumber 14 miles towards the 25 miles goal at Taunton. Famous on television for the "Flockton Flyer". "Cavalrymen without Horses" is an ARPS film shot on the occasion of the special Silver Jubilee Steam train on 1 October 1977 sponsored by the National Coal Board and presented by Barry Wright the ARPS Public Relations Adviser.

Kew Bridge Engine Trust
(5 pm Jan 6 & 2 pm Jan 13)
This lecture with colour slides will be about the development of Kew Pumping Station as London's only Living Steam Museum. It will cover the restoration by Kew Bridge Engine Trust of the five magnificent Beam Engines, other representative examples of steam engine types as well as the early 19th century forge and workshop.

FILMS — SEVERN SUITE I

THURSDAY 4 JANUARY	**14.30-15.45**	*Aeromodelling — Flight Fantastic, Flyaway* *Military Modelling — Ray Anderson, Miniature Dioramas*
SATURDAY 6 JANUARY	**12.00-12.50**	*Military Modelling — Ray Anderson, Miniature Dioramas* *Aeromodelling — Flight Fantastic*
MONDAY 8 JANUARY	**12.30-13.45**	*Military Modelling — Ray Anderson Miniature Dioramas* *Aeromodelling — 180 is Max, Flyaway*
TUESDAY 9 JANUARY	**13.00-13.50**	*Aeromodelling — 180 is Max, Flyaway* *Flight Fantastic*
WEDNESDAY 10 JANUARY	**12.00-13.30**	*Military Modelling — Ray Anderson, Miniature Dioramas* *Aeomodelling — 180 is Max, Flight Fantastic, Flyaway*
THURSDAY 11 JANUARY	**14.00-15.30**	*Military Modelling — Ray Anderson, Miniature Dioramas* *Aeromodelling — 180 is Max, Flight Fantastic, Flyaway*

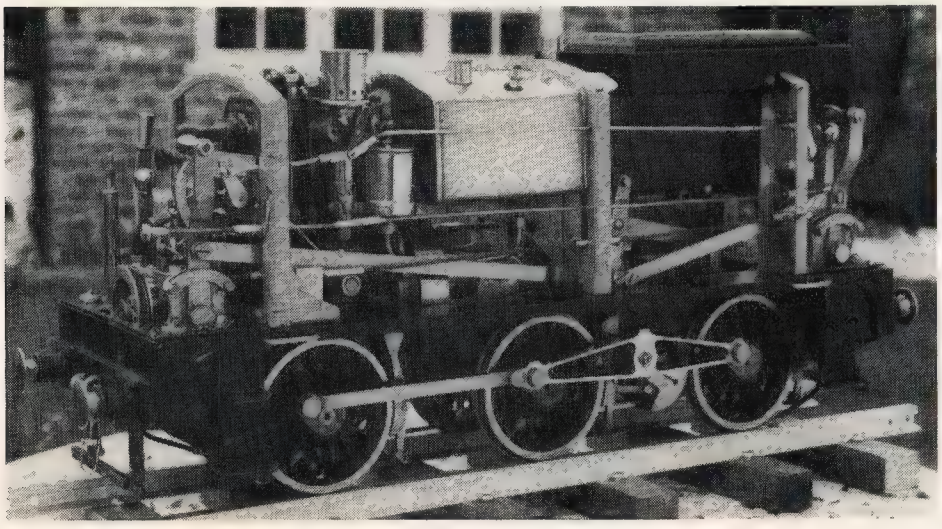
Flyaway" Approximately 12 minutes long, slightly humorous look at a flyaway free flight model. Excellent photography and first-class production. A winner at the Cannes Film Festival.

'Flight Fantastic". Approximately 11 minutes, shot entirely at the 1976 World Indoor Championships held in the giant airship hangars at R.A.F. Cardington. Well produced with music and commentary resulting in an educational and entertaining film.

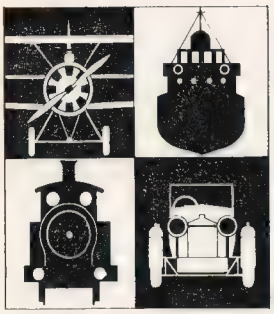
"180 is Max". Approximately 16 minutes, expertly filmed at the 1971 free flight World Championships in Sweden. Sound track explains events as they took place with flashbacks to cover the design, construction and competition philosophy behind the Canadian teams' efforts. Made by the Canadian National Film Board.

"Ray Anderson — Miniature Dioramas" shows the evolution of the creation of a two-box piece entitled "... And Then the Vein Gave Out". The first box is a western scene of the 1880s, a saloon exterior, with characters of the era in the action of their time. The second scene shows a modern family examining the building as it now appears deteriorated and abandoned, with the father explaining to his son the reasons for this ghost-town like scene "... And Then the Vein Gave Out".

Courtesy Historex Agents



The "1831" loco of Mr. L. J. Perkins with its body removed (entered in Class A).



48th Model Engineer Exhibition COMPETITION ENTRIES

The Exhibition is an "exhibition certified by the Department of Trade for the purposes of Section 6(2) of the Registered Designs Act, 1949". Exhibitors must make formal application for the registration of a design not later than six months after the opening of the Exhibition.

The Judges

Chief Judge:
Arthur Smith

Judges: LOCOMOTIVES AND ENGINEERING
Professor D. H. Chaddock
Charles Tidy
Peter Dupen
Martin Evans
Jim Ewins
John Haining
D. E. Lawrence

Judges: MARINE
E. C. Freeston
Jim King
Cmdr. A. Greenhalgh

Judges: AIRCRAFT
Henry Nicholls
R. G. Moulton

Judges: MILITARY
Roy Dilly
Norman Abbey
Max Longhurst

Judges: MODEL RAILWAYS
David Jenkinson
Bob Essery
Cyril Freezer

Judge: HOROLOGICAL
J. Malcolm Wild
Tony Mercer

Judges: CARS
Ray Rimell
D. J. Laidlaw-Dickson

Judges: MODEL HORSE DRAWN VEHICLES
John Thompson
Barrie Voisey
J. Pearce

Judges: SPECIALIST AWARDS
John Cundell
S. Cowell
M. C. Leonard
F. C. Cribbins
R. Habgood

Awards

The cups and medals will be forwarded to the successful competitors as early as possible after judging.

CHAMPIONSHIP AWARD

The Duke of Edinburgh Challenge Trophy

1. A very handsome silver tankard, this trophy, known as the Duke of Edinburgh Challenge Trophy, is awarded to the winner of the Championship Award at The Model Engineer Exhibition.

The Aveling-Barford Trophy

Presented by the Directors of Aveling-Barford Ltd., for annual award to the best working model traction engine, road roller or steam wagon in Class LA.

The Bowyer-Lowe Challenge Cup

Donated by the late Mr. A. E. Bowyer-Lowe, to be awarded for the best example of craftsmanship and design in the Tools and Workshop Appliances in Class N.

New Awards

The organisers are pleased to announce that there will be no less than 14 NEW Cups and Awards at the 1979 Exhibition.

Furthermore, all the cash prizes are being increased in value and the Prize Pool system is being dispensed with in favour of straightforward prizes.

Earl Mountbatten of Burma, who opened the 1978 Exhibition, has most graciously given his name to a new Cup to be competed for from two classes in the model boats section — these classes are exclusively for model naval ships, working and non-working.

In the locomotive and traction engine classes **Boxford Machine Tools Ltd.** have most generously donated a new prize of an M.E.10 lathe for the model in Classes A and L judged to show the highest quality of workmanship and engineering skill.

Cowell Engineering Ltd., of Norwich, are most kindly giving a Cowell 90 lathe to be awarded to the best overall entry in the junior engineering class of the Exhibition, together with a Cowell Jig Saw to the entrant judged most worthy in the marine and aircraft section of Class S.

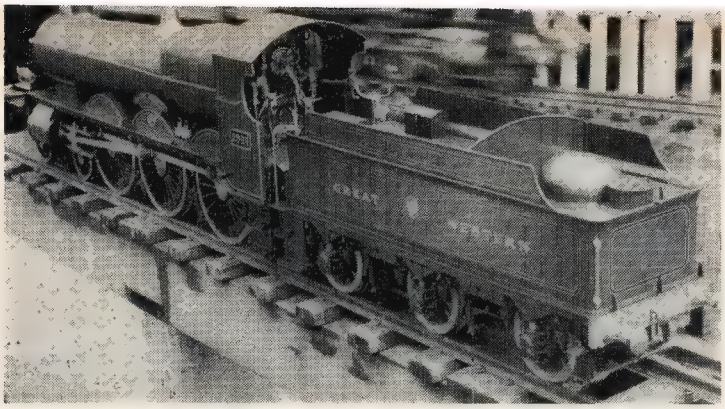
Morris & Ingram Ltd. are giving a Cup and Cash Prizes for the best air brush painted model in the entire Exhibition.

In the model aeroplane section new Cups are being presented by **Aeromodeller, Radio Control Models** and **Scale Models** in Classes AA, AB and AC respectively.

The allocation of the 14 new Cups, Trophies and Awards to classes is set out elsewhere in this supplement.

In the military modelling section there is a new **Military Modelling Trophy,** a **Battle for Wargamers Cup,** an **A.F.V. Trophy,** a **British Model Soldier Society Trophy** and a **Juniors Cup.**

The Claude B. Reeve Memorial Trophy. Awarded to the best horological entry in Class Q.



Norman F. Smith's "Saint Helena". Photo by Jim Perry Photo & Print Service.

CLASS: DUKE OF EDINBURGH CHALLENGE TROPHY

No.	*Description*	*Name and Town*	*Scale*
1	Research Microscope	R. S. Shute *(Corfe Mullen)*	
2	Ex G.W.R. Prairie 2-6-2 Tank Loco in 5 in. gauge	C. R. Amsbury *(Smalley)*	1/12
3	Harrier Final Assembly	Hawker Model Club *(Kingston on Thames)*	1/72
4	Burrell Scenic Showman's Road Loco	Miss C. Hinds *(Malvern)*	1/12
5	Starboard Engine and Part Hull of American Stern-wheeler	G. Hartung *(Gravesend)*	

CLASS A: Locomotive 2½ in. gauge and over

No.	*Description*	*Name and Town*	*Gauge*
1	Stanier 2-6-4 Tank (Jubilee)	P. V. Pugh *(Birmingham)*	3½ in.
2	Rob Roy No. 528	R. Larkin *(Hatfield)*	3½ in.
3	Rob Roy No. 529	D. Drover *(Hatfield)*	3½ in.
4	G.W.R. 4-6-0 No. 2924 "Saint Helena"	N. F. Smith *(Solihull)*	3½ in.
5	Firefly	P. Larkin *(Morden)*	5 in.
6	Tich Tank Loco	G. B. Houghton *(Rochester)*	3½ in.
7	L.M.S. 0-6-0 Dock Tank	E. Gausden *(Winnersh)*	5 in.
8	1831 I.C. Edgar Westbury Design	L. J. Perkins *(Marlow)*	3½ in.
9	Duke of Gloucester No. 71000	D. L. Evans *(Blackpool)*	7¼ in.
10	Lancashire & Yorkshire Rly. 2-4-2 Radial Tank c. 1920-30	E. F. Holden *(Oswaldtwistle)*	5 in.
11	4-6-2 'Hielan Lassie'	N. D. Bailey *(Twickenham)*	3½ in.
12	Southern Railway No. 914 "Eastbourne"	A. J. Breese *(Angmering)*	3½ in.
13	East African Class 57 Beyer Garratt	P. G. Wardle *(Tamworth)*	2½ in.
14	"Dornoch Firth" Britannia Class Loco and Tender	R. P. Coomber *(Dorset)*	3½ in.

CLASS A1: Locomotives to any LBSC design 2½ in. gauge and over

No.	*Description*	*Name and Town*	*Gauge*
1	LBSC 75000 Std Class 4 4-6-0 No. 75078	J. R. Gomersall *(Cleckheaton)*	3½ in.

CLASS B: Locomotives in gauge 1 and 0

No.	*Description*	*Name and Town*	*Gauge*
1	L.B.S.C.R. Class I3 Tank Locomotive	J. H. Porter *(Stourbridge)*	0
2	L.M.S. Class 5 Locomotive Tender	A. J. Fabrini *(Crowborough)*	0
3	L.B.S.C.R. Class A Tank Loco	A. J. Fabrini *(Crowborough)*	0
4	G.W.R. Star Class No. 4018	G. Noble *(Llandaff)*	0
5	Great Northern Railway No. 1	A. Razzell *(London S.W.8)*	0
6	Ivatt/Stanier 'Black Five' Loco	R. G. Marshall *(Telford)*	0
7	S.R. Pacific Loco Gauge 1	A. H. Matson *(Honiton)*	1

The Bradbury-Winter Memorial Challenge Cup

Donated by Mrs. J. Bradbury-Winter and a number of friends, to be awarded annually at the discretion of the Judges, for the most outstanding example of amateur mechanical craftsmanship in Classes A, A1, AS, B, BA, C, CA, J, K, LA, LB, LB, LC, M, N, O, P, Q, R and S

The Crebbin Memorial Cup

Donated by certain friends of the late Mr J C. Crebbin. To be awarded for the best entry in the Locomotive, General Engineering and Mechanically-propelled Road Vehicle Classes in A, B, BA, J and LA Classes.

J. N. Maskelyn Memorial Trophy

To be awarded at the discretion of the Judges, for the model locomotive, in any scale, which does most to promote the fidelity of design in Classes A, B and BA.

New Zealand Cup

Presented by the Model Societies of New Zealand for the best model of a locomotive based on a design by LBSC in Class A.

The H. C. Wheat Challenge Cup

The H.C. Wheat Challenge Cup presented by his son in memory of H. C. Wheat 1877-1948, to be awarded annually for the best "O" Gauge Locomotive exhibited in Class B.

The Model Railways Bowl

Presented by the proprietors of *Model Railways* for the best small gauge railway exhibit in Classes B, BA, C and CA.

The John Gray Memorial Trophy

Donated by the family of the late John Gray for the best Class N model by an entrant under 21, on 31 December 1978.

The Henry Greenly Award

A specially engraved pewter mug to be retained by the winning competitor, presented by Mr. and Mrs. E. A. Steel in memory of Henry Greenly for the best locomotive in Class A of 19th century type.

The Edgar Westbury Memorial Trophy

Memorial Trophy presented by the S.M.E.E to be awarded at the discretion of the Judges annually for originality and soundness of design in any type of prime mover, working plant in a marine craft or fidelity to prototype if a working model I.C. Engine.

Earl Mountbatten of Burma Trophy

This trophy to be presented for the best Naval model exhibited overall from Classes DW and EW.

The H. V. Evans Trophy

Donated by the Thames Shiplovers' Society in honour of its founder, Mr. H. V. Evans. To be awarded annually at the discretion of the Judges for research and/or presentation of a ship model in Classes DW, DM, EW, EM, F, I, GC, and GS.

The Maltby Trophy

Donated by Mr. M. Maltby to be open for competition by Ship Model Societies/Clubs exhibiting at the Model Engineer Exhibition in all marine classes.

Hot Air Engine Competition

A competition to encourage the design and building of model Hot Air Engines. Handsome cash prizes have been donated by Mr. A. N. Clark and Professor D. H. Chaddock, C.B.E., who will conduct the trials and act as judge. In order to encourage a wider range of development the competition will be open to two classes of entry, Class (A) 5 cc. and Class (B) 50 cc. Full copies of the rules are obtainable from Model & Allied Publications Ltd.

The Maze Challenge Cup

Donated by Sir Frederick Maze, K.C.M.G., K.B.E., to be awarded annually for the best model of a sailing ship (pre-1820) or of an Oriental sailing craft of any period from Classes F and GS.

The Willis Challenge Cup

Donated by Mrs. Willis in memory of her husband, to be awarded annually for the best exhibit in the Hydroplane and Speedboat Section, in Class H.

The "Bristol" Challenge Cup

Donated by the Bristol Aircraft Company. To be awarded annually for the best model of a "Bristol" aircraft in Classes AB and AC.

The Exide and Drydex Challenge Cup

Donated by the Directors of Chloride Batteries Ltd., for annual award. To be awarded at the discretion of the Judges to the best model incorporating a battery, entered in any section.

Badger Air Brush Cup

Presented by Morris & Ingram for the best air brush finish for models from all classes, together with a handsome cash prize.

Aeromodeller Cup

To be awarded for the best Free/Flight or control line model in Class AA.

R. C. M. & E. Cup

To be awarded for the best Radio Control Model in Class AB.

Scale Models Cup

To be awarded for the best model in Class AC.

The "Military Modelling" Trophy

A new trophy offered by M.A.P. Ltd.'s popular monthly magazine to be awarded annually to the winner of the MS1 "Special" competition class.

The "Battle for Wargamers" Cup

A new trophy awarded annually by M.A.P. to the winner of Class MW.

8	B.R. Standard Class 7 Pacific No. 70021 'Morning Star'	J. R. Brierley *(N. Lancing)*	0
9	Pair of N.G. Locos Sittingbourne & Kemsley Light Rly	D. A. Ware *(London E.10)*	0

CLASS BA: Locomotives in gauges smaller than 0

No.	*Description*	*Name and Town*	*Scale*
1	L.M.S. 2-6-0 Crab	K. Eden *(Bridgend)*	4 mm
2	Collett 48 XX Class Locomotive	D. Vine *(Guildford)*	4 mm.EM
3	L.S.W.R. 415 Class No. 420	B. H. Baker *(Alton)*	4 mm.EM
4	S.160 with freelance Vanderbilt Tender, Modified Cab Hood	C. S. Balderston *(Cleethorpes)*	4 mm.EM
5	V2 2-6-2 ex L.N.E.R. Loco	C. H. Scoffin *(Grimsby)*	4 mm.EM
6	G.W.R. 0-6-0 Dean Goods Loco	A. D. Simmonite *(Wokingham)*	4 mm.EM
7	G.W.R. "45XX" 2-6-2 "Small Prairie"	A. D. Simmonite *(Wokingham)*	4 mm.EM
8	G.W.R. 4-4-2 "La France"	C. F. Donovan *(Birmingham)*	4 mm.
9	Tank Locomotive (Ex L.M.S. 2-6-2.T)	W. A. Ashton *(Ramsgate)*	4 mm.

CLASS CA: Rolling Stock and Accessories, gauges smaller than 0

No.	*Description*	*Name and Town*	*Scale*
1	G.W.R. 1st Class Sleeping Car 12 Wheel	M. J. Pavier *(Camberley)*	4 mm
2	Stanier Corridor 3rd Coach in B.R. Livery	R. Cooper *(Manchester)*	4 mm
3	Great Western Railway 1897 Diamond Jubilee Royal Train	C. E. Newell *(Steyning)*	4 mm
4	1½ Ton Lift Hand Operated Crane and Matchtruck	R. J. Taylor *(Bristol)*	4 mm
5	Rake of Five Pre-Grouping Wagons	C. Gwilliam *(Hartlepool)*	4 mm

CLASS DM: Steam and Motor Merchant and all non-naval of any period (non-working)

No.	*Description*	*Name and Town*	*Scale*
1	Edwardian Paddle Steamer	G. M. Waugh *(Tyne & Wear)*	1/72
2	M.F.V. Launch Out K.Y.4.9.6	R. W. Stevens *(Brentwood)*	—
3	48 ft. 6 in. Oakley-type Lifeboat	D. Rosondale *(Royston)*	1/48

CLASS DW: Steam and Motor Warships of any period (non-working)

No.	*Description*	*Name and Town*	*Scale*
1	H.M.L.C.T. 4001 H.M.S. Redoubt LCT MK. VIII	B. Page *(Epsom)*	1/96
2	H.M.S. Curacoa Light Cruiser	L. Kirby *(Cleckheaton)*	—
3	D.D. 445 USS Fletcher	E. R. Dyke *(Wivenhoe)*	1/192
4	L. Cruiser H.M.S. Superb	E. R. Dyke *(Wivenhoe)*	1/192
5	H.M.S. Eskimo (Sept.1940) — "Tribal" Class Destroyer	B. L. C. Hill *(St. Albans)*	1/192

CLASS EM: Power Driven Boat and Ship Models, Merchant and all non-naval (complete with power plant)

No.	*Description*	*Name and Town*	*Scale*
1	Nuclear Powered Cargo Liner "Savannah" (U.S.A.)	R. A. Deal *(Watford)*	1/162
2	R.M.S. Titanic	P. Beardsmore *(St. Albans)*	1/147
3	Launch Out Fishing Boat	M. A. Cox *(Tetbury)*	—
4	"Lady of the Lake" Edwardian Steam Launch	M. A. Cox *(Tetbury)*	1/6
5	Sun Tug XXI	D. Sinclair *(Enfield)*	—
6	M.F.V. Eileen	R. Raynard *(Belper)*	—
7	M.V. Free Enterprise	R. A. Whitton *(Staines)*	1/76
8	Steam Yacht 'Eiriona Jean'	G. Gilbert *(Stockport)*	1/36
9	R.N.L.I. 'Rother' Class Life Boat	L. W. Jones *(Halesowen)*	1/16
10	Victorian Steam Launch	J. G. Gibbs *(London)*	1/8

11	Torbay Lifeboat (Aran Class)	S. J. Wilson *(Brixham)*	1/12
12	Scarborough Life-Boat R.N.L.B. J. G. Graves of Sheffield	G. Willis *(London W14)*	1/12
13	Cabin Cruiser	R. Culham *(Hackney E5)*	—
14	'Homarus' Rowing Boat	S. Moore *(London Colney)*	1/6
15	Middle Distance Motor Trawler	R. D. Dudley *(Luton)*	7/192
16	M.F.V. Eileen	J. F. Lock *(Welling)*	1/24
17	Fairey Marine 'Amira' Luxury Power Cruiser	C. Spencer *(Horwich)*	1/12
18	1909 Lowestoft Metal Hulled Steam Drifter 'Diana'	G. W. Drew *(Huntley)*	1/16
19	Weser Fireboat	S. McSweeney *(Middlesex)*	1/30
20	P.S. Lady Margaret	P. N. Foreman *(Margate)*	1/84
21	M.V. Royal Daffodil (Post War)	P. N. Foreman *(Margate)*	1/96
22	Clyde Puffer "Sealight"	A. Locks *(Meopham)*	
23	Surfury 36	K. T. James *(Gosport)*	1/12
24	Chuchow Vane-Wheel Motor Tug 1925	S. J. Kirby *(Twickenham)*	1/25
25	The Trinity House Pilot Tender "Pathfinder"	N. Walker Heslington *(Sheffield)*	1/48

CLASS EW: Power driven boats and ship models, warships (complete with power plant)

No.	*Description*	*Name and Town*	*Scale*
1	K.M. Bismarck	G. E. Gent *(Spalding)*	1/120
2	Royal Navy Type 21 Frigate	E. C. Parker *(St. Leonards on Sea)*	1/48
3	H.M.S. Marvel Ocean Mine Sweeper	R. R. Smith *(Basildon)*	1/48
4	Thornycroft Motor Torpedo Boat	H. G. Blackledge *(Maldon)*	1/24
5	72 ft Thornycroft M.T.B.	H. S. Gore *(Iver)*	1/24
6	R.T.T.L. Follow-on Craft Mk 3	R. D. Dudley *(Luton)*	1/20
7	Invincible Class Battle Cruiser	G. J. Parkinson *(Fleet)*	—
8	H.M.S. Newcastle Type 42 Destroyer	K. T. James *(Gosport)*	1/150
9	"Clematis" Flower Class Corvette	S. J. Kirby *(Twickenham)*	1/96
10	U.S.S. Katahdin 1896	S. J. Kirby *(Twickenham)*	1/96

CLASS F: Sailing Ships of any period (non-working)

No.	*Description*	*Name and Town*	*Scale*
1	17th Century Sixth Rate	Capt. K. M. Gosling *(Barnham)*	1/125
2	16 Gun Brig	M. C. Puttock *(Sunbury on Thames)*	1/48
3	Thames Barge	C. A. Tomlinson *(Sth. Woodford)*	1/48
4	North East Coast Coble (Pilot)	T. Beale *(Harrogate)*	—
5	18th Century Hoy "Tamar"	J. Pheby *(Beckenham)*	1/48
6	Royal Sovereign of the Seas	I. Osborne *(Northampton)*	1/300
7	12 lb Naval Gun in ship section 1805 period	R. C. Tribbick *(Wembley)*	1/20
8	H.M. Frigate 'Euryalus' 38 Guns 1805	J. J. P. Feasey *(Bodmin)*	1/144
9	Brigantine "Leon"	O. K. Jacobsen *(Walsall)*	1/48
10	Barbary Pirate Xebec	G. F. Simpson *(Newport, Gwent)*	—
11	Iron Clipper Ship "Cedric the Saxon"	C. G. Turner *(Oxford)*	1/96
12	Brigantine "Leon"	J. A. Morgan *(Waddington)*	1/96
13	Brigantine "Leon"	P. Hollingsworth *(Brighton)*	1/64
14	The Lord High Admiral's Flagship 1426	C. J. Burchell *(W. Midlands)*	1/60

The A.F.V. Trophy

A new trophy to be awarded annually to the winner of Class MD.

The British Model Soldier Society Trophy

A new trophy to be awarded annually by the B.M.S.S. to the best model in Military Classes MA and MC.

The Juniors Cup

To be awarded annually by Model & Allied Publications Ltd. to the best junior entry in Military Classes MJ1 and MJ2.

LBSC Memorial Bowl Competion

A handsome trophy presented by public subscription by admirers of the late "Curly" Lawrence, known throughout the world as LBSC, to be for a locomotive of his design which will be judged on both appearance and performance.

The Claude B. Reeve Memorial Trophy

Awarded to the best horological entry in Class Q.

The "Bill Hughes" Cup

Donated by Mrs. E. Hughes; to be awarded for the best example of amateur craftsmanship in a steam powered model from classes A and LA.

SPECIAL AWARDS

Boxford Model Engineer Award

A Boxford M.E. 10 lathe to be presented for the Working/Functional model showing the highest quality of workmanship and engineering skill to be selected from locomotives in Class A and traction engines in Class LA.

Cowells "Junior of the Year" Award

A prize of a Cowells lathe to be awarded to the junior entry in Class S of the Model Engineer Exihibition, displaying an element of engineering skill and judged to be the best model taking into account the age of the entrant and the workmanship relative to workshop facilities available.

Cowells Marine & Aircraft Award

A prize of a Cowells jig-saw to the junior entrant judged most worthy from the Marine and Aircraft models within Class S of the Model Engineer Exhibition 1979 competition.

*Silver & Bronze Medals

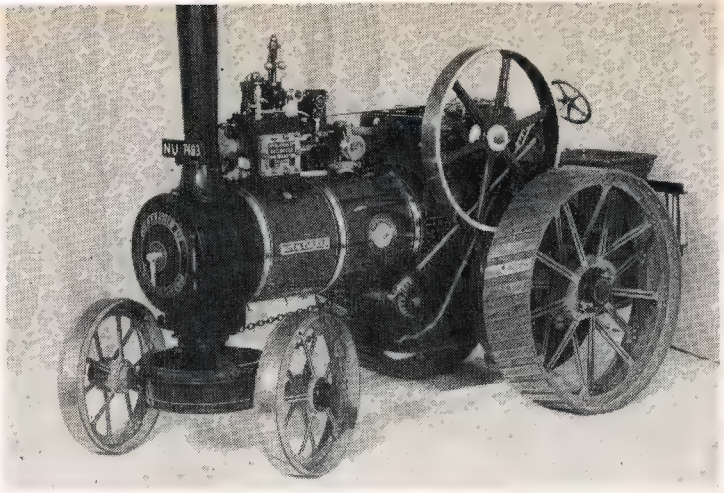
Offered in all classes, provided the work is considered by the judges to be of medal standard. The medals will be awarded on the quality of individual models.

*Silver and bronze coloured

Championship Cups

In addition to challenge trophies a number of cups or other trophies are offered to become the permanent property of the winners. Class trophies are offered as follows for the best:

I Locomotive in Class A.
II Steam or Motor Vessel — in Classes DM, DW, EM, and EW
III Sailing Ship or Yacht — in Classes F, GC and GS
IV Ship Miniature — in Class I
V Mechanically propelled Road Vehicle — in Class L
VI General Engineering Exhibit — in Class J
VII Aircraft Model — Classes AA, AB, AC
VII Military Modelling Figure — Classes MB, MC, MJ1
IX. Military Modelling Diorama — Class MA
X Military Modelling Vehicle — Classes MD, MJ2



Mr. K. F. Clover's "Royal Chester". Photo by D. E. Lucas.

Certificates

Certificates of entry are given to the owner of every model exhibited in the Competition sections. Where, in the Judges opinion, an exhibit is of sufficiently high standard but does not obtain a 1st, 2nd or 3rd place, it may be awarded one of the following certificates. Very Highly Commended, Highly Commended or Commended.

Students Cup

Awarded for any piece of amateur craftmanship made by a member or members of a class of any school or technical college, or by a full time engineering apprentice. The exhibitor (or exhibitors) must be under the age of 18 on 31 December 1978.

CLASS GS: Sailing Ships — Working

No.	Description	Name and Town	Scale
1	Archibald Russell 4 Masted Barque	D. Ansell *(London Colney)*	1/64
2	Spritsail Coastal Barge (Will Everard)	A. B. Whiteley *(Hatfield)*	1/24
3	Working Sailing Model of a London to Leith Smack	T. Manning *(Wendover)*	1/32
4	Yacht	W. A. Ashton *(Ramsgate)*	—
5	Northumbrian Coble	W. Hepper *(Richmond)*	

CLASS H: Hydroplanes and Speedboats

No.	Description	Name and Town	Scale
1	White Heat (Hydroplane)	J. Wilsher *(Hayes)*	—
2	R/C Hydroplane powered by a 4 cylinder engine	E. Colpin *(Asnieres)*	

CLASS I: Miniatures

No.	Description	Name and Town	Scale
1	Chapmans Chalk Barge 1768	C. C. Beazley *(London)*	1/120
2	H.M.S. Prince of Wales 1941	G. F. S. Winrow *(Birkenhead)*	1/1200
3	H.M.S. Howe 1944	G. F. S. Winrow *(Birkenhead)*	1/1200
4	"Fort Poplar" War-built Cargo Vessel as in July 1943	D. Styche *(London)*	1/32
5	K. M. Tirpitz	P. M. Baggaley *(Sidcup)*	1/1250
6	La Couronne, French 72 Gun 1636	D. Hunnisett *(Aylesbury)*	1/600
7	No Brandy for the Parson	T. J. P. Feasey *(Bodmin)*	1/144
8	Endeavour 1768	J. E. Porter *(Edenbridge)*	1/96
9	H.M.S. "Sheffield" Waterline Model	A. Crisp *(London)*	1/600
10	Clyde "Puffer"	J. K. Adams *(London)*	1/180

CLASS J: General Engineering Models (including Stationary and Marine Engines)

No.	Description	Name and Town	Scale
1	Cosier's "Thimble"Rotary Valveless, Crankless, High speed, high torque Steam Engine 7cc	P. Cosier *(Sidcup)*	—
2	The Hedley Pit (Phase 1— The Air Shaft)	E. Cheeseman *(Peterlee)*	1/20
3	4 Column Beam Engine with boiler	D. K. Hulse *(Stoke on Trent)*	1/16
4	Working Model Stationary Steam Engine	E. Baynes *(Watford)*	—

STAND HOLDERS

Foyer

Argus Books dealing with all types of modelling and miniature engineering interests and will be found on this stand. Under the imprints of *Model & Allied Publications, Bellona Publications,* and *Harleyford,* the subjects covered include woodworking, workshop practice, lathe techniques, model soldiers, live steam construction, wargames, model aircraft, radio control, model yachts, and marine modelling generally, tanks and fighting vehicles, and reference books on the full-size subjects. Don't miss the fine facsimile reprints of early volumes of *Model Engineer, Ships & Ship Models,* and *Model Railway News* which are still of practical reference value.

British Rail

Six locomotive models (½" to the foot) scale are on display at the **British Rail** Stand. They will be both electric and steam locomotives and representative of British Rail.

Brochures and information on Inter City and General rail travel will be available.

THE SOCIETY OF MODEL AND EXPERIMENTAL ENGINEERS

Situated in pride of place in the Hampton Room, the Society's display should not be missed. Members stewarding on the stands will be pleased to meet you and answer questions. The Society's technical experts will be giving workshop demonstrations and will be happy to

5	Shand Mason Fire Engine	B. Goldsmith *(Luton)*	1/6
6	Single Cylinder Horizontal Engine	A. R. Best *(Sutton)*	—
7	Steam Driven Sugarcane Mill Circa 1805	R. Jarvis *(Portland)*	1/12
8	Stuart No. 9	B. G. Holland *(Oxford)*	—
9	"A"-frame Beam Engine	T. D. Walshaw *(Longsledale)*	1/12
10	XIXth Century Overcrank Steam Engine	T. D. Walshaw *(Longsledale)*	—
11	Triple Expansion (2LP) Propulsion Engine	W. H. Sampson *(Bath)*	1/16
12	Rotol C.V. Airscrew	B. Hares *(Birmingham)*	1/5
13	Stuart Launch Engine	J. Wheeler *(Minster in Sheppey)*	
14	"Moriya" Stirling Engine Powered fan	J. R. Bennett *(St. Albans)*	
15	Vertical Steam Engine (Reversing)	L. S. Bidmead *(Walton on Thames)*	
16	Rigby's Patent Steam Hammer	D. Rust *(Hemel Hempstead)*	
17	No. 10 Stuart Turner Vertical Steam Engine	S. Jagusa *(N. Nigeria)*	
18	Rotary Cylinder Steam Engine	Mrs. J. Norris *(Herne Bay)*	

CLASS KC: For any model boat built from a commercial kit

No.	*Description*	*Name and Town*	*Scale*
1	Semi-scale of Rotterdam Tug	P. R. J. Cobban *(Epsom)*	1/50
2	Polacra Venus 1848	P. J. Wright *(Carpenders Park)*	1/48
3	Zwarte Zee Deep Sea Tug	B. H. Preston *(Camberley, Surrey)*	1/100
4	Vosper 73 ft M.T.B.	P. K. Hope-Lang *(Upper Weald)*	
5	Set of 6 World War 2 Aircraft Carriers	W. T. Coleman *(Kenton)*	1/1200
6	KM "Gneisenau"	W. T. Coleman *(Kenton)*	1/700

CLASS K: Internal Combustion Engines

No.	*Description*	*Name and Town*
1	15 cc Glow Plug Engine	P. B. Allen *(Wokingham)*
2	Twin Cylinder Air Cooled Glow Plug Engine	P. B. Allen *(Wokingham)*
3	3.5 cc Glow Plug Engine (Marine)	P. B. Allen *(Wokingham)*
4	8 cylinder engine	E. Colpin *(Asnieres)*

CLASS LA: Mechanically propelled road vehicles (including tractors)

No.	*Description*	*Name and Town*	*Scale*
1	Foden Steam Wagon & Foden Trailer	J. R. Mills *(Hockley)*	1/4
2	2 in. Scale Fowler Class BB1 Ploughing Engine No. 15222	R. Houlder *(Crowborough)*	1/6
3	Burrell Traction Engine	I. P. Watson *(Herne Bay)*	1/4
4	Royal Chester Allchin Traction Engine	K. F. Clover *(Bushey Heath)*	1/8
5	Allchin Traction Engine	G. Ledster *(Toddington)*	5/48
6	6 N.H.P. Single Cylinder Burrell Traction Engine	D. F. Barrett *(St. Albans)*	1/4
7	Scammell Recovery Vehicle	W. B. H. Stephens *(Tring)*	1/8
8	Minnie Traction Engine	E. W. Drage *(Stevenage)*	1/12
9	"Fowler" Showmans Engine	R. G. Russell *(Newport)*	1/6

discuss with you any technical problem you may have. On the miniature railway, where coal fired locomotives will be continuously operating, the younger members of the family can ride and enjoy the thrill of steam, or, on the models' stand, watch the wheels go round under compressed air.

A large selection of the machines and tools described in the *Model Engineer* and made by members of the Society will be on display in addition to the usual collection of members' work.

For those wishing to belong to a Society, the S.M.E.E. is unique. Founded in 1898 by Percival Marshall it caters for all branches of model engineering and, at its headquarters in S.E. London, members can enjoy the benefits of a fully equipped workshop, well stocked library and a meeting hall where lectures are held at regular intervals. Members have the opportunity of meeting experienced craftsmen and by doing so can gain added knowledge in the use of tools and machines.

Monthly News Sheets and an Annual Journal are sent free to members. Competitions for silver and bronze medals and other awards are held twice a year. Overseas and country members are welcome and for these subscription rates are adjusted according to distance.

Application for membership should be made to: The Secretary, Arthur A. Smith, Marshall House, 28 Wanless Road, London SE24. Phone: 01-674 5317.

Kew Bridge Engines Trust have the steam launch "Natalie", owned by Mr. N. P. Knight. The builder is actually unknown, but it is believed to have been built around 1900. Length is 16 feet with displacement of ½ ton. Construction is Carvel Pine on Oak. Cruising speed 4 knots. Engine is by Stuart Turner and Co., about 1905, a No. 3 size compound. The boiler is a vertical fire tube with a 100 lb. per square inch. Two engines by Plenty and Son of Newbury, one of which is incorporated with the boiler, the other a pinnance engine, from an Admiralty launch.

Stand 1

Tracy Tools Ltd., have available sets of taps and dies — drills, taper pin reamers, watchmakers' drills and dies, small milling cutters, slitting saws, angle cutters, countersinks, counterbores, long drills, broaches, endmills, files, burrs, toolbits, Coventry dies, knurls, pitch gauges, screw plug and ring gauges, carbide tools. (All items well below half price). Free gift value £5.00 with all purchases.

Stands 2 and 7

R.D.M.S. Factory Machine Tools & Equipment Supplies, will be selling lathe chucks, drill chucks, milling cutters, saws, taps, drills, tool bits, files, silver steel burrs, grinding wheels, vices, tipped tools, carbide tipped rod, hand tools, counterbores, countersinks, micrometers, verniers, precision measuring equipment spanners, model engineers' handbooks, and drilling machines and angle plates.

Stand 3

Abrasive Tools Limited. A full range of the famous ABRAFILE handtools will be demonstrated and available for sale. Including tension files for sawing shapes, bendable Boundfiles for awkward reaches, Mousetail scribing and probing files, Flexisaw pocket cable saws and rotary files for deburring, polishing and slotting. Consult us with your problems.

Stand 4

Fareham Engineering. The 1978 Steam Season has established this Company as one of the leading manufacturers of spirit fired traction engines, and has led to the development of a range of "O" Gauge locomotives and has encouraged us to exhibit at Wembley for the second year. The full range of our products will be on display at the Show including kits and we will be pleased to see old and new acquaintances.

Stand 5

Akron Tool Supply Co. Engineers' tool supplies: ME tap dies, end mills, slot drills, measuring tools micrometers, vernier calipers, etc, workholding tools, vices, chucks, etc., hand tools: punches, scribers, etc. All tools found in our illustrated and priced catalogue.

Stand 6

Eric H. Bernfeld Limited. Featured will be Boley & Leinen watch/instrument makers' lathes and accessories for those seeking precision equipment. A selection of Belzer quality small hand tools together with a wide range of Verniers and other measuring instruments, micro-precision drills and for general modelling such items as pen type spot oilers, modelling knives, tweezers, rail track cleaning blocks, and the Adel nibbling tool for cutting shapes in metal sheets. Safety handles for files.

Stand 8

Precision Petite Ltd. Be sure to visit stand No. 8 where Precision Petite Ltd. will be showing some of the finest miniature electric tools and accessories available. In the Precision Petite range there are two types of drill, a new transformer that takes both, and every accessory for fine model work. The MINITOOL range of individually powered tools (new to this country) are on show, and the tried and tested ASBO DRILLS will be demonstrated — seeing is believing.

Stand 10

Traction Engine Enterprises have a large selection of Records and Books on Railway Traction Engines, Fairground and Street Organs. Also represented on the stand will be a Traction Engine Enterprises associate company M.E. SPECIALIST PUBLICATION SUPPLIES, the leading supplier of bound, unbound, and loose issues of *Model Engineer* and a large range of Model Engineering books. Rare Model Engineering books now out of print will also be on sale.

Stand 11

Sidney G. Jones Limited will be showing a full range of the world-renowned Swissmade Grobet Files, i.e. Needle Escapement, Precision, Riffler, Machine, Rotary, Engineers Diamond and the unique Valtitan file which has a surface hardness of 72 Rockwell C. Also being shown are the Skoda range of Revolving Lathe Centres, Drill and Extension sleeves: Narex Carbide Tipped Dead Centres. Also a small range of ESO Dies and Gauges.

Stand 12

Easibind Limited. The Easibinder is a unique method of binding all those magazines that you want to keep, as you receive them making them into beautifully bound volumes to grace your bookshelves. Stoutly made in attractive binding materials with individual magazine titles already blocked on. Binders are available for all of the Model and Allied Publications range of titles and most others. All titles relating to the exhibition are on sale at our stand.

Stand 13

Model & Miniature Railways are once again at the Exhibition, but with a very much increased range of castings, materials, etc. for the model engineer. Our range of castings now covers 30 locomotives of which we will have the most popular on the stand. Any special castings ordered before the Exhibition will be delivered to the show. As usual finished models will be for sale at the Exhibition.

Stand 14

Maxwell Hemmens Precision Steam Models manufacture scale, replica model steam engines including a range of marine engines and traction engines. Component parts are also available including investment castings and drawings together with kits to suit the skilled model enthusiast or person having no workshop facilities.

10	East Ham Corporation Tramways 4-wheel Tramcar	J. R. Prentice/The Late V. Whitbread *(Romford)*	1/16
11	Burrell 7 N.H.P. General Purpose Traction Engine	N. R. Gabbitas *(Gainsborough)*	1/8
12	Kitson & Hewitson Slanting Shaft Ploughing Engine	Dr. A. Braddock *(Oldham)*	1/6
13	Allchin Showman's Engine (Coal Fired)	J. D. Bunce *(Beaconsfield)*	1/16
14	"Allchin" Traction Engine	D. A. Gough *(West Midlands)*	1/8
15	General 1920 K Type	R. Clarke *(Orpington)*	

CLASS LB: Functional Model Cars

No.	*Description*	*Name and Town*	*Scale*
1	Radio Controlled Stock Car No. 229	J. M. Varley *(Keighley)*	1/8
2	Radio Controlled Stock Car No. 65 (6 wheeler)	J. M. Varley *(Keighley)*	1/8
3	Radio Controlled Stock Car No. 391	K. S. Parkin *(Bingley)*	1/8
4	R/C Car and Trailer	T. Smith *(Houghton Regis)*	1/8

CLASS LC: Model Cars (non-working)

No.	*Description*	*Name and Town*	*Scale*
1	Citroen 15 six cylinders 1948 version	C. Miners *(Cheltenham)*	1/8
2	1932 Model "B" Type Roadster	M. P. Streets *(Sidcup)*	1/8
3	J.P.S. Lotus 72D and Tyrrell Ford F-1 Pair	P. Crow *(Shoreditch)*	1/12
4	Six Wheeled Tyrrell Crash Scene	D. Saunders *(Tunbridge Wells)*	1/24
5	Pit Scene: 4 figures and Lola Sports Car	D. Saunders *(Tunbridge Wells)*	1/12
6	Lancia Stratos: Monte Carlo Rally (1977)	D. Saunders *(Tunbridge Wells)*	1/24
7	Rescuing "James Hunt" from crash, 4 Figures and 1/12th scale McLaren F.1	D. Saunders *(Tunbridge Wells)*	1/12
8	1907 Rolls Royce Silver Ghost	A. S. Holt *(Twickenham)*	1/12
9	4½ Litre Bentley Blower	F. Turner *(Uxbridge)*	1/12
10	Mack Bulldog Truck with heavy Recovery Equipment	R. Leadbetter *(Corwen)*	
11	1915 Model "T" Ford: Fitted with Holmes Type 485 Wrecking Equipment	R. Leadbetter *(Corwen)*	1/76
12	Lotus 49 Ford FI Racing Car	A. Clarke *(Erith)*	1/12

CLASS N: Tools and Workshop Appliances

No.	*Description*	*Name and Town*	*Scale*
1	Engraving Machine (by Duplex)	J. Read *(Woolwich)*	
2	Q.C. Gear Box	S. H. Abigail *(Richmond)*	
3	Rotary Table — Dividing Head	P. J. Pardington *(Ickenham)*	
4	⅜ in. Vertical Drill	A. S. Garner *(London S.W.18)*	
5	Bench Drilling Machine	D. Honey *(Billericay)*	
6	"Quorn" Tool & Cutter Grinder Mark II Modified	F. Cottam *(St. Albans)*	
7	2 in. Universal Dividing Head	B. Hares *(Birmingham)*	
8	Micrometer Saddle Stop	S. H. Willetts *(Lydney)*	
9	Special Top Slide on top slide	S. H. Willetts *(Lydney)*	
10	Micro Drilling Machine	P. A. Clark *(Radlett)*	
11	Slotting Attachment for use on Myford Lathes	A. Throp *(Sheffield)*	
12	Lathe Sawing and Filing Attachment	D. Vick *(N. Nigeria)*	

David Stubbs' model of the Glyn Valley Tramway.

CLASS O: Engineering Scale models (non-working)

No.	Description	Name and Town	Scale
1	Garrett 10 ton Road Roller	A. Brown *(Carnforth)*	5/96
2	QF Field Gun 18 Pdr Mk IV 1918	B. White *(Hemel Hempstead)*	1/12
3	1904 Milnes-Daimler Double Decker Bus	C. Hall *(Twickenham)*	4 mm
4	Ford "T" Charabanc 1915 (circa) 14 seater	C. Hall *(Twickenham)*	1/16
5	Dennis 22 seater Charabanc c.1922	C. Hall *(Twickenham*	1/32
6	1948 Crossley D.D. 42/5 of Oldham	C. Hall *(Twickenham)*	4 mm
7	Fowler Showman's Road Locomotive No. 20223 "Supreme"	C. Hall *(Twickenham)*	4 mm
8	Foden C. Type 3-Way Tipper	P. J. Dickinson *(Huddersfield)*	4 mm
9	Showman's Road Loco	E. Taylor *(London E.7)*	1/12
10	Traction Engine	E. Taylor *(London E.7)*	1/12
11	French 9lb Cannon	D. L. Cowell *(Birmingham)*	40 mm
12	K-Type General Bus	R. E. Clarke *(Orpington)*	

CLASS P: Scenic Model

No.	Description	Name and Town	Scale
1	Crystal Palace Television Tower	A. Bassett & P. Bailey *(Thornton Heath)*	1/96
2	"Final Installations"	E. F. Bolton *(London)*	1/32
3	Gallopers	K. R. F. Kenworthy *(Watford)*	1/48
4	Ironbridge	G. Tilby *(Wellington)*	1/64
5	Tregeiriog — Glyn Valley Tramway	D. Stubbs *(Newbury)*	7 mm
6	"Gaviolo" Organ in Wagon	R. G. Russell *(Newport)*	—
7	"Savage" 3-A-Breast Gallopers	R. G. Russell *(Newport)*	1/12
8	L.M.S. Lineside Huts	I. Ross *(Liverpool)*	4 mm
9	Henblas Farm	D. A. Rowe *(Colyton)*	4 mm
10	Upottery School, Devon	D. A. Rowe *(Colyton)*	4 mm
11	Thomas Slate Quarry	D. A. Rowe *(Colyton)*	4 mm
12	Charlies to the Rescue	B. Stranger *(Carshalton)*	1/25
13	Grand Gavioli Organ	D. Lewendon *(Wheatley)*	1/24
14	Legging (An old form of propulsion through a canal tunnel)	J. A. Nicklin *(W. Midlands)*	54 mm
15	St. Botolph's Church, Littlechester	R. W. J. Chitham *(Hawkhurst)*	1/148
16	Steam Loco Museum	G. R. Webb *(London N16)*	4 mm
17	Railway Terrace	J. Norris *(Herne Bay)*	4 mm.

Stand 15

Proops Bros are offering a huge selection of "£1 Bargain Packs" of Model Motors, Mains Motors, Spade and Ring Connectors, Springs, Spacers, Self Tapping Screws, Steel, Shakeproof and Star Washers, Mains Neons, Bowden Cable, Copper Tubing and Castors. In addition we have various Gears, Brass and Steel parts, Bearings, Timers, Magnets, Reed Switches etc. All items and more may be purchased from our Retail Shop, 52 Tottenham Court Road, London W1P 0BA at any time.

Stand 16

Morris & Ingram (London) Ltd. Full range of Badger air brushes including the 100 Xf 200 and 350 models. The 200 EX and 350 are of particular interest to modellers. Also on show the new Badger 180 E compressor, a quiet, highly efficient compressor suitable for home and small workshop use. Complete range of accessories are available, and demonstrations of the Badger equipment will be given continuously on Stands 16/17.

Stand 18

Rhodes Flamefast will have on display their full range of Flamefast Equipment, especially designed for the model engineer, including the 120F combined Brazing Hearth and Gas Forge, CM250 Crucible Furnace, wide range of torches, needle flame torch, LN1000 Mk 2 Gas Kiln, Mini Kiln IMS8 Blowfast, CRM600S Crucible Furnace. The items above will be demonstrated, and seen for the first time will be the CM250 Crucible Furnace and Mini Kiln.

Stand 19

Chronos Designs Ltd., are rapidly becoming internationally known for their comprehensive range of division plates and cutter frames for clock makers, ornamental turners and model engineers. In addition to these items, a number of hard to get specialist small tools, castings and part finished components for clock makers will also be on sale. Clock wheel cutting, using a variety of methods, will be demonstrated daily at frequent intervals.

Stands 22 & 109

Continuous demonstrations of the Bottle Chopper by **A. T. Lee & Co.,** the original all-metal easily assembled precision tool, which will cut bottles accurately. As shown on BBC television's "Tomorrow's World".

Recycles "No Deposit" bottles into useful household items. Makes Glasses, Tumblers, Vases, Fruit Bowls, Goblets, Napkin Rings, Candle Holders etc. The only handicraft using free raw materials. Kit includes full instruction leaflet with diagrams for assembly, tapping hammer and six wheel tungsten cutting tool.

Stand 24

N. Mole & Co (Machine Tools) Ltd. of Watford will again be demonstrating the popular "Amolco" Lathe Milling Attachment and the "Amolco" bench type vertical Milling Machine will be on view. Do make a point of seeing these excellent machines during your visit to the Exhibition. Also on show will be a selection of lathes manufactured by Boxford Machine Tools, & Myford Ltd., together with machines by other well known manufacturers. There will be a display of accessories produced for these machines including a range of measuring equipment and a wide variety of other tools etc for your workshop.

Stand 25

Elliott Machine Equipment display and demonstrate throughout the exhibition the "Unimat 3" designed and manufactured to meet all the requirements of the Model Engineer. The machine with the many varied optional accessories is capable of machine work in all metals and wood. A special feature on the EME stand will be a selection of model cars made on the Unimat, kindly loaned by Gerald Wingrove who will be in attendance at various times to give any help or assistance

required. Also displayed will be the Emco BS-2 Bandsaw and some larger metal and woodworking machines from the Emco range.

Stand 28

Held Products will this year be introducing four new versions from the Held Medieval Clock kit range. Each presentation pack contains all the pre-stained parts and explicit assembly drawings to construct a working replica of an ancient time piece. The four new kits are the Beech Knight Clock, Gothic Clock and wooden wheeled clock (which is now equipped with two hands) and the Oak Rotating Dial clock kit. A swiss range of kits with solid pear tree wood gears will also be on display.

Stand 29

A. E. King (Tools) Ltd., Alan King invites old and new customers to see our display Stand 29 for all types of model engineering. All goods on show are for sale, i.e. sets drills, taps and dies, reamers, endmills, slotdrills, Woodruff and dovetail milling cutters, vices, lathe and drill chucks, Myford parts, squares, micrometers, verniers, knurling tool holders, toolbits, toolmakers clamps. All goods sold are of best quality and we welcome Access/Barclay card customers. Do come and look for our special offers.

Stand 30

Charles Kennion and his family would like to meet you on Stands Nos. 30/31, with the finest collection of materials, tools, rivets, fittings, and drawings ever offered at any Exhibition.

The copper and brass tubes now range from 1/16" to 6" o.d. Ceramic fibre for boiler lagging is now available to replace asbestos. Drawings for 5" G. G.W.R. Dean Goods and No. 2251 are included in our stock and lists of castings for these and over 44 other locomotives from "0" Gauge to 7¼" Gauge are also available.

Stand 32

Precision Paints Co. Ltd. will once again be exhibiting their full range of world famous Authentic Railway Colour enamels and sundries; all of which may be purchased from the stand. An added attraction this year is the collection of full size railway crests which will be on view. This collection forms the basis of a new range of full size, easily mounted, transfers being marketed by Precision Paints Co. Ltd. Though easily mounted, there is a mounting service for the more cautious purchaser. If the venture is successful, then further examples of these long lost works of "railway art" will be released.

Stand 33

Kenneth Johns Limited. Sievert L.P. Gas Equipment for brazing. Continuous demonstrations and technical advice throughout the day. Our guests — Tim Ilett, Technical Representative of the Sievert U.K. Concessionaires will be with us throughout the exhibition, and Bert Perryman of the Worthing Club on both Thursdays. Johnson Matthey Brazing Materials, and a wide range of hand tools (Whitehouse Hammers, Eclipse etc.), at special exhibition prices. Plus, just introduced into this country a new Swiss made Scriber, and your opportunity to buy again a Sievert Paraffin Blowlamp. Our staff includes Bill Storer and newcomers, both to our Company and the Exhibition, Robert Lem and Raymond Hansell.

Stand 35

Cowell Engineering Limited of Oak Street, Norwich NR3 3BP, have three new machines which make their debut in the well-established range of *Cowells* small machine tools and accessories.

The 90HS (High Speed) version of the popular Cowell 90 Lathe is designed to meet the specialised needs of model engineers generally. The 90CW (Clock & Watchmakers) Lathe is engineered around use of 8 mm collet and offers the horological trade a high precision

CLASS Q: Horological, Scientific and Optical

No.	*Description*	*Name and Town*	*Scale*
1	Barometer	J. F. Lowndes *(Blackpool)*	
2	Congreve Clock	J. R. McKee *(Worcester)*	
3	Multimeter	J. Miller *(Blackpool)*	
4	Skeleton Clock	T. W. Millward *(Cheshire)*	
5	Skeleton Clock	J. R. McKee *(Worcester)*	
6	8 Day Wall Clock	D. Edworthy *(Bexhill on Sea)*	
7	Skeleton Clock	N. C. Ta'Bois *(Buckhurst Hill)*	
8	Scott Electric Clock	L. E. Wynne *(Middlesex)*	
9	Lantern Clock	J. E. Chantler *(Weybridge)*	
10	Mantel Clock with Westminster and Whittington Chimes, Quartz Movement date and Moon phase	S. H. Carrington *(New Milton)*	
11	Skeleton Clock	A. Driver *(Kings Langley)*	
12	Heat Exchanger (Chemical)	W. A. Ashtin *(Ramsgate)*	
13	Eureka Clock	D. Vick *(N. Nigeria)*	
14	Congreve Rolling Ball Clock	D. J. Everard *(York)*	

CLASS R: General Craftsmanship

No.	*Description*	*Name and Town*	*Scale*
1	"The Horsewoman"	G. M. Waugh *(Sunderland)*	
2	Queen Anne Style Pistol	R. C. Armstrong *(London SE5)*	1/3
3	Small Table	J. F. Lowndes *(Blackpool)*	
4	Phantom Bicycle 1869	C. F. Adams *(Ruislip)*	1/16
5	B.M.W. R75/5 Motor Cyle	E. J. Wharton *(West Drayton)*	1/6
6	Full working model of 1744 Flintlock Holster Pistol	D. Neave *(Bristol)*	
7	The Clown	K. Horsey *(Addlestone)*	
8	Weather Vane	J. R. Webster *(Kilburn)*	
9	Matched pair of TAZZA in Ivory and African Blackwood	T. D. Walshaw *(Kendal)*	

CLASS S: Junior entries

No.	*Description*	*Name and Town*	*Scale*
1	Stuart Victoria Stationary Engine with modifications	I. Griffiths *(Bristol)*	1/12
2	1930 4½ litre Bentley	P. Bradbury *(Chorley)*	1/12
3	"Two's Company" (Horse and Dog)	S. Hullis *(Ipswich)*	
4	Turbo Porsche RSR 934	G. R. Deakin *(Worcester)*	1/12
5	Bench Hacksaw Machine	N. Dickerson *(Royston)*	
6	Machine Vice	P. Bishop *(Royston)*	
7	Chuck Glider	C. H. Allen *(Old Harlow)*	
8	Flying Fortress B-17G	M. C. Batty *(Sale)*	1/48
9	Monaco Grand Prix 1977	J. S. & R. Reynolds *(Bristol)*	1/20
10	British Power Boats 63 ft. Air Sea Rescue Launch	J. Hope-Lang *(Calverton)*	1/24
11	Lifeboat 70 ft.	P. Slaughter *(Romford)*	
12	Cavalier	R. Thick *(Dagenham)*	
13	Aircraft Carrier	M. Matthews *(Romford)*	
15	H.M.S. Belfast, Cruiser	I. Montgomery *(Romford)*	

16	Augsburg: Deutschland Frigate	D. Marin *(Chadwell Heath)*	
17	T Class Submarine	D. Marin *(Chadwell Heath)*	
18	Paddle Steamer	C. Marin *(Chadwell Heath)*	
19	Titan Tug	S. Lloyd *(Dagenham)*	
20	Lifeboat 70 ft.	R. Law *(Romford)*	
21	Yacht	J. Knight *(Chadwell Heath)*	
22	Oil Rig Supply Vessel	A. Dundon *(Chadwell Heath)*	
23	H.M.S. London County Class Destroyer	R. Cook *(Romford)*	
24	Destroyer	G. Cannon *(Dagenham)*	
25	Frigate	W. Cannon *(Dagenham)*	
26	Aircraft Carrier	D. Clarke *(Romford)*	
27	Royal Yacht Britannia	J. Carey *(Dagenham)*	
28	American Pusher Tug	D. Chilver *(Ilford)*	
29	SPAD Aeroplane	M. Chilver *(Ilford)*	
30	Oil Rig Supply Vessel	D. Brettall *(Romford)*	
31	Hunt Class Destroyer	M. Bore *(Romford)*	
32	L.S.T. Landing Craft	M. Alder *(Romford)*	
33	Flatty Skimming Dish	M. Slaughter *(Romford)*	
34	Aircraft Carrier	M. Slaughter *(Romford)*	
35	Four 009 Locomotives	R. Constable *(London N.2)*	4 mm
36	Cornish Whim Engine	R. Constable *(London N.2)*	4 mm
37	Bristol Boxkite 1911	C. Gannon *(Whitstable)*	1/48
38	Junkers Ju 188	C. Gannon *(Whitstable)*	1/72
39	Supermarine Spitfire Mk 1A	C. Gannon *(Whitstable)*	1/24
40	Horizontal Steam Engine	S. Shadbolt *(Hemel Hempstead)*	
41	After the Crash	K. Jackson *(Seven Kings)*	1/72
42	"Mary Ann" North Sea Cutter	S. J. Pym *(Wickford)*	1/33
43	Delta Dagger	A. Jackson *(Ilford)*	1/72
44	Boiler for 0-4-0T Locomotive 2½ gauge	I. Ross *(Liverpool)*	1/24
45	Spanish Toreador Picture	A. Dowsett *(Ruislip)*	

CLASS AA: Flying Models of all types

No.	*Description*	*Name and Town*	*Scale*
1	Duchess 1 "79"	P. Winter *(Edgware)*	
2	Stunt King, Control Line	C. G. Crawley *(Hendon)*	
3	Sky Contessa	T. G. Beatson *(Bournemouth)*	
4	Corsair	R. R. Packham *(Barnes)*	
5	Marquis Control Line Stunt	P. J. Gain *(Chessington)*	
6	Southerner Mite Free Flight	P. G. Gain *(Chessington)*	
7	"Merlin" International Class Glider	R. A. Twomey *(Winkfield)*	
8	FAI Class A/1 Contest Glider	J. F. Clark *(Wallington)*	
9	Control Line Flying Disc	D. Bundock *(Walthamstow)*	
10	Free Flight Diesel Biplane	C. G. Haupt *(Ewell)*	
11	Stunt Gyro	T. Emrys-Roberts *(W. Byfleet)*	
12	R/C Semi Scale "Kestrel" Glider	T. Fox *(Woking)*	1/6

machine at a comparatively low price. Both machines are engineered to the high standards of all Cowell's machines and employ thyristor variable speed controls.

Third newcomer is a small Vertical Milling Machine of traditional design. The table is slotted to accept Cowell 90 lathe accessories, and an electronic speed controller is standard fitting.

The three new machines are an extension of the current range of Cowell's lathe, jigsaw and drilling machine, all of which will be on display. Practical demonstrations will be given and customer orders taken.

Stand 40

Euro Models of Twickenham are importers and trade distributors of high quality wooden manufactures. There will be demonstrations of the Vibro saw which will cut almost anything except your fingers, Saito steam engines and boilers, Hinode Radio Control units for 1/35 scale tanks, Mantua radio control racing car kits in 1/8 scale. Made up models from kits by Corel Aeropiccola, Steingr aeber etc. Huge marine fittings display and stock with superb timbers viz — lime, walnut, box, mahogany in many sizes, scale plans and hand tools, Xacto etc.

Stand 42

H. R. Plastow have specialised in steam model traction engine design and supplied drawings and castings for their construction for over twenty years. All models, castings and fittings are available in various scales. See our display. The Fowler Showman's traction engine and road locomotives being available in 2", 3" and 4" scales. The 4½" scale Burrell on display is also available in 3" scale as drawings and castings. Fully detailed catalogues on stand.

Stand 43

In addition to the well-known Titan and Reliant miniature 12 V d.c. drills, **Expo Drills** are showing kits comprising a basic drill plus selected tools and accessories. A new all-metal vertical drill stand, convertible for horizontal use as a bench polisher-grinder or (with a pair of accessory adaptors) as a miniature lathe, is also on show, together with the Wishbone Drill Sharpener and Reconditioner which enables anyone, without special skill, to restore blunt and broken twist drills to virtually "as-new" condition in a few minutes.

Stand 44

Studiolith Ltd. produces PROTOFOUR — the only correct-scale 4 mm system of model railways commercially available in this scale. The range covers track components including constructional tools and gauges, coach, wagon and locomotive driving wheels. Scale locomotive mainframes, of which over 250 types are now available to order, will be shown together with the unique hornblock suspension system.

Stand 45

Millhill Supplies (Tools). A comprehensive range of H.S.S. twist drills including number, letter and imperial drills, taps and dies for model engineering, precision measuring instruments, general workshop tools and the popular range of T.O.S. lathe chucks. Storage units for small parts, components etc., will also be displayed.

Stand 46

A. J. Reeves, the well known Company have over 25 years' experience in supplying Model Engineers with specialised castings and materials. Showing a selection of Models from their range of 67 different Locomotives, five Traction Engines, and 17 Stationary Engines, along with many home built workshop items. Main stockists of Workshop Tooling from: Arrand, Boxford, Clarkson, Dormer, Eclipse, Fobco, Goliath, Harrison, Intal, Jacobs, Kennedy, Loctite, Myford, Neill, O'Brian, Perfecto, Qualcut, Record, Sievert, Taylor, Unimat, Verdict, W,X,Y,Z, and others if we had space.

Stand 50

Boxford Machine Tools Ltd. The improved ME10 Lathe now available with a clutch is our main feature, complete with a range of accessories. It is the ideal machine for the model engineer. Our VM30 vertical milling machine is also proving popular among model enthusiasts, other lathes and products are on display.

Stand 52

Modelcraft are exhibiting the complete range of *Stuart Turner* castings, machined castings, and boilers, with many finished engines on show, and for sale. This year for the first time we will also be bringing most of the Stuart accessories. *Wilasco:* We will be showing and selling the exceptional Marine steam plant. *Mardave R/C Cars.* Come and see the whole range of kits spares and accessories. Also for the first time 1/12 Electric cars which we will also be demonstrating every day. *Big Six Replicas:* All metal classic British motor bike models: approximately 10 in. long and 2½ lb. in weight with separately spoked wheels.

Stand 53

Myford Ltd. For many years the very mention of lathes for the model engineer has evoked thoughts of Myford Limited whose lathes have for long been the yardstick by which other model engineering lathes have been judged and have in this respect enjoyed a world-wide reputation. The rigidity and accuracy are such that tens of thousands are used by industry for production purposes but throughout, Myford Limited have remained conscious of the needs of the model engineer so far as both versatility and cost are concerned. Three metal-turning lathes are shown. The first of these is the Super 7 which is joined by the ML7-R shown for the first time a year ago. The ML10, also on display, is in modified form with taper roller bearings for the headstock spindle and a hardened countershaft running in bronze bearings.

Stand 54

Microflame (UK) Ltd. Continuous demonstrations of Dremel tools, including Dremel Moto-Shop, Moto-Lathe, and new saw table, silver-soldering and brazing with Microflame torches plus an opportunity to try your skill with Paasche world famous airbrushes. Make a visit to stands 53a and 53b a MUST!

Stand 57

North London Society of Model Engineers. This Society, formed in 1945, now has a membership of over 150 drawn from a large area of North London and Hertfordshire. Its headquarters, at Church Farm, New Barnes, include a meeting-room, library 00-gauge layout and electric car track. It has, on private ground near Hatfield, a long and continuous live steam track for 3½" and 5" gauge and a shorter track, also continuous, for 2½", 3½" and 5" gauge. The Club holds an annual regatta and several open electric car meetings. The Stand will show a wide variety of members' work, including models running on compressed air. For further particulars, times of meetings etc., please consult the steward on the stand or write to the secretary, M. J. R. Radford, 80 Holden Road, Finchley, London N12.

Stand 58

The Tramway and Light Railway Society is a society whose members have an interest in tramways and light railways from historic, modelling research and general aspects. The Society's large model tramway layout has been exhibited at many centres. The tramcars have been built by members and are scaled at ¾ inch to 1 foot (one sixteenth full size), either to 3½ inch (standard) gauge or 2⅝ inch (narrow, 3 ft. 6 in.) gauge which travelled the streets of many cities and towns in Britain and cover the period from Edwardian times to those of more recent design. They are powered by D.C. motors having a maximum voltage of 24. The voltage fed to the motors control the speed,

13	FAI A/1 Glider "Harlequin"	C. Hollowood *(Nantwich)*
14	"Jabberwock" — Semi Scale Biplane	D. R. Arundel *(Tamworth)*
15	"Littlejohn" Open Rubber Model	T. Anderson *(Durham)*
16	Super Swallow Coupe d'Hiver	I. Dowsett *(Ruislip)*
17	Skylab R/C Model Aeroplane	P. Huntley *(Swindon)*
18	A/2 Glider	W. R. Simms *(Esher)*
19	Albatross C/Line Stunt Model	A. Eves *(Tewkesbury)*
20	Kelston Swift A1 Glider	G. Dowsett *(Ruislip)*

CLASS AB: Scale Flying Models

No.	*Description*	*Name and Town*	*Scale*
1	Bristol Bulldog II	M. S. F. Staples *(Cambridge)*	1/9
2	Spitfire Mark IX	Lt. Cdr. P. C. Suther R.N. *(London)*	7/48
3	Lockheed P2V-7 Neptune	D. W. Newby *(Ripley)*	1/6
4	Electric R.T.P. 1909 Bristol Boxkite	L. J. Brock *(Thorpe Bay)*	1/16
5	Sopwith Pup	S. Hannaway *(Weybridge)*	1/12
6	Electric R.T.P. Martin-Handasyde No. 3 Monoplane	D. T. Farman *(Norwich)*	1/12
7	1912 Blackburn Monoplane	P. A. Scorey *(Harpenden)*	1/8
8	Fieseler Storch	D. M. Waters *(Whitstable)*	1/24
9	1913 Maurice Farman M.F.7 (Longhorn)	J. Larter *(Ripley)*	1/7
10	North American P51D Mustang	R. Miller *(Carterton)*	15/96
11	Walrus Flying Boat	P. G. Gain *(Chessington)*	1/16
12	BE2E	D. E. Ellis *(Hull)*	1/12
13	DH 71 Tiger Moth	D. Bundock *(Walthamstow)*	1/6
14	DH 71 Tiger Moth	B. Bundock *(Walthamstow)*	1/3
15	De Havilland D.H.6	M. Oakey *(Letchworth)*	1/18
16	Sopwith Camel	M. Element *(Shrewsbury)*	1/6
17	Sea King Helicopter	J. B. Morley *(Weybridge)*	1/10
18	Chance Vought F4U-1D Corsair	A. R. Dowdeswell *(Dunstable)*	1/8

CLASS AC: Non-flying Scale Models

No.	*Description*	*Name and Town*	*Scale*
1	P-47D 352nd FG 487th	A. Fett *(Rushden)*	1/72
2	Lohner "L" Flying Boat	V. P. Cook *(Swindon)*	1/72
3	Westland Scout Helicopter	V. P. Cook *(Swindon)*	1/72
4	Junkers Ju 52 (Ski Version)	N. Thomas *(Basingstoke)*	1/72
5	P51 D Mustang	N. J. Lyon *(London)*	1/24
6	General Dynamics F-16 No. 9	M. Bishop *(Saffron Walden)*	1/32
7	Cassutts "Snoopy" and "Scarab"	D. J. Collins *(Claygate)*	1/20
8	A10 Thunderbolt II	S. E. P Jerrett	1/48
9	Westland Whirlwind	D. J. Maycock *(Hayes)*	1/72
10	F6F-3 "Hellcat" USN 1944	R. D. Banham *(Ramsgate)*	1/48
11	McDonnel Douglas F-4K Phantom	P. A. Curtis *(Bridgwater)*	1/32
12	Hawker Siddeley Harrier GR1a	B. Rockhill *(Orpington)*	1/24
13	Messerschmitt Me 262	T. S. Joseph *(Saltney)*	1/32
14	B24J-95-CO (Crashed)	E. Miles *(Fareham)*	1/48
15	"Civil Lynx" — As it might have been	P. Jones *(Potters Bar)*	1/72

16	Hawker Sea Fury	P. Cooke	*(Twyford)*	1/24
17	P-51 Mustang	P. Hancock	*(Egham)*	1/48
18	McDonnell Douglas AV-8B Advanced Harrier	D. C. Boyne	*(W. Ewell)*	1/24
19	Crashed Mustang	D. C. Boyne	*(W. Ewell)*	1/32
20	Early S.S. Type Airship 1916	A. Constable	*(London)*	1/72
21	Douglas Skyraider AEW Mk 1	A. Constable	*(London)*	1/40
22	Armstrong Whitworth Siskin III DC & IIIA	A. Constable	*(London)*	1/72
23	"Redwings"	A. F. Woollett	*(Wokingham)*	1/36
24	Anatra D & DS	A. Constable	*(London)*	1/72
25	Messerschmitt Me 163B "Komet"	S. Carr	*(Sutton Coldfield)*	1/72
26	Meteor Mk IV 63 Sqn. 1950	P. D. Franks	*(Sutton Coldfield)*	1/72
27	Fairchild A10A Thunderer	E. Taylor	*(London)*	
28	D.H.53 Humming Bird	A. F. Woollett	*(Wokingham)*	1/36
29	Lockheed Tristar	P. Fox	*(Woking)*	1/144
30	Me Bf 109E	M. Fox	*(Woking)*	1/32
31	Republic P47D Thunderbolt	N. Owen	*(Birmingham)*	1/72
32	Mustang Racer	M. Owen	*(Birmingham)*	1/72
33	Bristol Type 142	G. F. Wright	*(W. Midlands)*	1/72
34	Bristol Brandon Air Ambulance	D. W. J. Burchell	*(W. Midlands)*	1/72
35	Hawker Hurricane	D. P. Dobbie	*(W. Midlands)*	
36	Marauder B26	A. Carroll	*(Sutton Coldfield)*	1/72
37	P40E Kittyhawk	W. J. G. B. Dawes	*(Sutton Coldfield)*	1/72
38	Avro 1911 Biplane	C. Gannon	*(Whitstable)*	1/48
39	Messerschmitt Me323 D-1 Gigant	C. Gannon	*(Whitstable)*	1/72
40	Dornier DO 335	C. Gannon	*(Whitstable)*	1/48
41	Martyn-Handasyde 1 (1910)	C. Gannon	*(Whitstable)*	1/48
42	Spitfire Mk 1a	C. A. Ormerod	*(Bridgwater)*	1/24
43	F104C Starfighter	M. Philpot	*(Maidenhead)*	1/32
44	Curtiss BF2C-1	F. Turner	*(Uxbridge)*	1/32
45	B-17G Flying Fortress of R. Nine O Nine 91st B.G.	R. Long	*(Bristol)*	1/48
46	Lockheed F-104J Starfighter	V. Lee	*(Dagenham)*	1/32
47	Messerschmitt Bf 109 G-5	S. Kells	*(London)*	1/72
48	Messerschmitt Bf 109 E JG 27	S. Kells	*(London)*	1/72
49	Messerschmitt Me 163 B-1 "Komet"	S. Kells	*(London)*	1/72
50	Focke Wulf FW 190 A-8/R1	S. Kells	*(London)*	1/72
51	Messerschmitt 262A-1a	S. Kells	*(London)*	1/72
52	Sepecat Jaguar GR.1. 20 Sqdn.	N. Wareham	*(St. Albans)*	1/36
53	The Invader's Spacecraft	M. Plummer	*(Boston)*	1/72
54	Westland Whirlwind	E. J. Vine	*(Bexleyheath)*	1/48
55	Seafire F.R. 46	F. E. Brown	*(Maidenhead)*	1/32
56	S.A.A. Junkers 86	B. Dennis	*(London)*	1/72
57	B17 Rear Fuselage	R. Long	*(Bristol)*	1/48

CLASS MA: Diorama

No.	*Description*	*Name and Town*	*Scale*
1	The Last Offensive, Ardennes 1944	R. Mussett *(Rickmansworth)*	1/35
2	The Wild Geese	J. Learmouth *(Midhurst)*	54 mm.
3	Dawn Breakfast	C. Miners *(Cheltenham)*	1/35
4	Royalist Cavalry, English Civil War	S. A. Asquith *(S. Harrow)*	54 mm.
5	The Hunter and the Hunted	J. Newey *(Tilehurst)*	1/35
6	Straf-Battalion 999	J. Newey *(Tilehurst)*	1/35

hence the need for controllers on the layout. The track is split into electrical sections, and each driver controls the cars moving towards him. Although the large-scale models are probably the best known, there are scale groups who model in "O" gauge and "sub-7" scales.

The Society publishes literature (including a news sheet and magazine), photographs and drawings of tramway and light railway interest. The Model Engineering section make some castings available to members. Regular meetings are held in London and some provincial centres for talks, film and slide shows and discussions.

Stand 59

Harrow and Wembley Society of Model Engineers was formed in 1936 and caters for all model engineering interests encouraging the production of models, tools and experimental work.

The exhibition stand displays a representative selection of items which include locomotives, tools, stationary engines, a steam test boiler and a hot air engine. Pictures show activity at the Society's ground level multi gauge (3½", 5" and 7¼") track. The society holds meetings at St. Andrews Church Hall, Malvern Avenue, South Harrow on the 2nd and 4th Wednesdays from September to May. From June to August meetings are held every Wednesday evening and Sunday afternoon at the track situated at Roxbourne Park, Field End Road, Eastcote.

For more information and membership application, write to: Mr. P. Reed, Hon. Secretary, 5 Rydal Gardens, Kingsbury N.W.9.

Stand 60

Malden & District Society of Model Engineers was founded in 1936 when the Society operated a track as part of the Holidays at Home Scheme in Beverley Park, New Malden, and in later years obtained a long lease on its present site in Thames Ditton where a raised track caters for 3½ in., 5 in. and 7¼ in. locomotives while itself being surrounded by a large ground level 7¼ in. layout.

Stand 61

Welling and District Model Engineering Society formed in 1945, now has a membership of over eighty and caters for all aspects of Model Engineering. Meetings are held twice monthly, with guest speakers, film and slide shows are regular features. The Society's portable track for 3½ in. and 5 in. gauge is used extensively in the summer for local fetes and exhibitions.

Stand 62

Kew Bridge Engine Trust. A superb workable model forms the centre piece of a display featuring the Cornish Beam Engine and reminding visitors that they can see the real thing in action every weekend at Kew Bridge Pumping Station, Green Dragon Lane, Brentford, Middlesex.

Stand 63

GWR Preservation Group was formed in June 1976 with the objectives of purchasing GWR locomotives Class 5101 2-6-2T No. 4110 and Class 2800 2-8-0 No. 2885 and restoring them to working order.

The group purchased 4110 in March 1977 and funds for 2885 are well established. Accommodation is being sought for restoration work and negotiations for a building in the West Middlesex area are in an advanced stage. The locomotives are ultimately scheduled to operate on the Torbay and Dartmouth Railway.

A progressive Group tempering enthusiasm with reality, and particularly seeking new members willing to assist with the restoration and administrative work.

Stand 64

The Southern Federation of Model Engineering Societies is a stand that is the mecca for Model Engineers. Founded in 1969 to cater for clubs in Southern parts to encourage all forms of Model Engineering. 1978 rallies were held at Peterborough and Maidstone, 1979. 1979 Handbook will be on sale. The stand will be

staffed by member clubs and Committee members. The number of clubs in the Federation is 80+.

Stand 65

The National Model Museum Trust. This charitable trust is exhibiting again this year under their new title. The Museum will house a public exhibition showing all types of models and their history. On their stand the trustees will be displaying and talking about their progress and their plans for the Museum and the help and support which they need.

Stand 65a

The Association of Railway Preservation Societies exists to form a link between the many and diverse groups of preservationists, ranging from the operators of private steam railways to the proud owners of a small collection of relics. If you have a yen to work in a 12 in. to the foot — the only scale that needs no compromise — and there is one within easy reach of your home.

Stand 66

Hadley Hobbies. A really large selection of Model Trains, Aircraft, Boats and Cars can be seen on the large stand of this well known specialist City of London Model Shop. Radio Control Enthusiasts can inspect the latest in UHF and FM sets, and there are lots of ideas for those just starting. Railway modellers will find everything they need and of particular interest is the new Conrad track system and the Arnold N gauge range. Plastic kit fans will also find a great deal to interest them. Watch out for the special Exhibition offers.

Stand 68

Plaistow Pictorial will be displaying their wide range of posters, prints and post cards of aircraft, railway engines, military vehicles, motor cars and traction engines with many exciting additions since the 1978 exhibition. Also on show — fine aviation and military reference books, including AIRFIELDS OF THE EIGHTH AIR FORCE; the continuing ENSIGN series of warship monographs; Napoleonic reference material and, of course, their popular "Then and Now" quarterly — AFTER THE BATTLE.

Stand 69

J & P Stafford Associates. This is a newly formed business, the aim of which is to supply the model engineer with material and castings although every opportunity is being made to widen the range of products. The variety of steel sections in stock are unequalled in the business and it is considered that having had a long experience in model engineering, the knowledge achieved of what is required will be of benefit to the model engineer.

Stand 72

John Piper (Accessories) Ltd. After taking various opinions from hobbyists and trade journals, they are unanimous that our products will fulfil markets which have been neglected. Quality and reality have been the hallmark of John Piper Models, in the architectural and industrial fields, for many years.

Stand 74

"Train Time" (Goodyear Models of Huddersfield) is the establishment which specialises in handbuilt models and vintage toys for the collector. The shop, situated in an elegant Victorian arcade, has the largest stocks of pre-war stock outside London.

Stand 75

Hannant's of 56 London Road North, Lowestoft, Suffolk, will be showing a full range of Micro Scale Decals. The image contains over 350 different sheets for model aircraft covering

7	"Break-Out" North Africa	C. Miners *(Cheltenham)*	1/35
8	"Is This the Way to Podington Mac?"	A. Fett *(Rushden)*	1/35
9	"Ration Party"	R. Philpott *(Eastcote)*	54 mm.
10	German Army Flak, 20 mm. Flakvierling 38	K. Thorpe *(London)*	1/35
11	Centaur Bulldozer and figures on scenic base	C. Davies *(Portsmouth)*	1/35
12	British Paratroops at Arnhem	J. Curran *(Salford)*	
13	Holland 1940	S. R. Garner *(Salford)*	1/35
14	U.S. Marines Raising the Flag at Iwo Jimo	J. Curran *(Salford)*	
15	Run Rabbit Run	T. J. Morgan *(Dover)*	54 mm.
16	Just in Time	T. J. Morgan *(Dover)*	54 mm.
17	4077th M.A.S.H.	T. J. Brett *(Bishop's Stortford)*	1/35
18	Unit of the Ramcke Brigade WWII	D. Hallam *(S. Woodford)*	
19	The Maiden Flight of the Germans' Secret Weapon the V1	P. Harlow *(Chatham)*	1/35
20	M4 Sherman	M. Dutton *(Newquay)*	1/35
21	Hetzer 38T	J. Edwards *(Rickmansworth)*	1/35
22	Matilda	J. Edwards *(Rickmansworth)*	1/35
23	Pz Kpfw 38	J. Edwards *(Rickmansworth)*	1/35
24	U.S. Light Tank M5A1	J. Edwards *(Rickmansworth)*	1/35
25	"Les Trois Grenadiers"	J. J. Todd *(Brentwood)*	54 mm.
26	"Survivors"	S. Harry *(S. Harrow)*	54 mm
27	Cromwellian Officers c. 1642	R. D. Salter *(Watford)*	
28	North Africa 1942	M. J. Roberts *(Pinner)*	1/32
29	Cavalry Officers — on Leave!	B. Reynolds *(Northants)*	
30	Prussian Cuirassiers 10th Regiment 1759	P. Hammond *(Barnet)*	90 mm.
31	Death of an Egyptian MiG	T. Lewis *(Chiswick)*	
32	Town Square France 1944	P. Riley *(London)*	1/76
33	Fording a Russian River, Summer 41	J. A. Thomason *(Cranleigh)*	1/35
34	"Shelter" — An isolated section takes cover	K. M. Henschel *(E. Croydon)*	1/35
35	M113 Christian Phalangist — Lebanon 1976	T. C. J. Brown *(Thurlaston)*	1/35
36	"Lesson 1 the SLR"	P. D. F. McDermott *(Aylesbury)*	54 mm.
37	"At your Target in Front 10 rounds Grouping Carry On"	P. D. F. McDermott *(Aylesbury)*	54 mm.
38	"Thin Blue Line" R.A.F. Regiment Airfield Defence Post, Southern England, September 1944	P. D. F. McDermott *(Aylesbury)*	54 mm.
39	28 cm K 5 (E) Leopold Railgun on Vogele Turntable	L. K. Hughes *(Deeside)*	1/72
40	Battle	D. Bloor and M. Guy *(London)*	1/72
41	Attack	M. Guy *(London)*	1/72
42	Marston Moor — Whitecoat's Last Stand	K. M. Yuill *(Bishop Auckland)*	54 mm.
43	Death of the Desert Fox	C. Porter *(Edenbridge)*	1/24
44	The Resting Post	R. D. Claydon *(Ilford)*	90 mm.
45	Hussar Regiment von Prittwitz 1806 Drowning Sorrows	D. Thomas *(Felixstowe)*	1/32
46	Indisches Legion France 1944	A. Weale *(London)*	1/35
47	A Breakdown in Manoeuvres	M. Lavender *(Sevenoaks)*	1/9
48	Flakvierling and Crew at rest (winter)	M. Grun *(London)*	1/35
49	The Road to Moscow — 1942	R. P. Engert *(New York U.S.A.)*	1/76
50	Chad 1969	D. Preece *(Slough)*	1/35
51	Breakdown of M113 A.P.C. Vietnam	M. A. Garton *(Rainham)*	1/35

52	In the Bleak Midwinter	M. D. Palmer *(Bognor Regis)*	1/35
53	Operation Typhoon Threatened by General Winter	P. Chown and B. Scott *(Bushey)*	1/35
54	Blitzkreig Reaches the Low Countries	B. Scott and P. Chown *(Kingsbury)*	1/35
55	L.R.D.G. Chevrolet 1942	A. Dingley *(Liverpool)*	1/35
56	The Wheeled Oasis	R. Smith *(Little Chalfont)*	1/32
57	The Rout at Prestonpans	B. N. Thurlow *(Nunhead)*	1/20
58	"Nail + Tyre = Puncture!"	S. V. Woods *(S. Harrow)*	1/35
59	Junyo, 5th November 1943	M. Bee *(Cheltenham)*	1/700
60	The Last Ride	J. Pope *(London)*	1/9
61	Lost	A. Miller *(Woodford Green)*	1/35
62	Tank Killers	A. Miller *(Woodford Green)*	1/35
63	The Road Home	T. Murphy *(Liverpool)*	1/35
64	Help for a Friend	D. J. Ahern *(Redhill)*	1/35
65	Last Stand	D. J. Ahern *(Redhill)*	1/72
66	Ambush	D. J. Ahern *(Redhill)*	1/35
67	Officer and Private 95th (Derbyshire) Foot Crimea	J. Moffat *(Oxon.)*	54 mm.
68	Spanish Army Camp — Peninsular 1812	J. Moffat *(Oxon.)*	30 mm.
69	Scots Guards Band	D. R. C. E. Hamilton *(Kingston upon Thames)*	50 mm.
70	Jousting	D. M. Catley *(Reigate)*	54 mm.
71	War Chariot	D. M. Catley *(Reigate)*	54 mm.
72	Island Ordeal	J. M. Jarzembowski *(London)*	1/35
73	Totenkopf Division Reconnaissance Unit *1943*	B. Wellings *(Walthamstow)*	1/35
74	Royalist Officers 1643	J. England *(Liss)*	54 mm.
75	Scots Fusilier Guards at Alma	W. Jardine *(Barnet)*	25 mm.
76	Barbarossa — Moving Out	R. J. Morrison *(Woking)*	1/35
77	Sword Beach D-Day 1 1400 Hrs.	Romford & Dagenham MBC	3.5 mm.
78	Eastern Front Spring '44	M. D. Charter *(Dunstable)*	1/35
79	The Duel — of Officers and Gentlemen	C. Watts *(Bradford)*	54 mm.
80	Riflemen of the 60th and 95th regts.	G. E. Scopes *(Tadworth)*	54 mm.
81	The Final Fitting	G. D. R. Humphries *(London)*	54 mm.
82	The Rescue	M. W. Mayes *(Lewisham)*	1/76
83	"A Greater Need"	B. Wood *(Luton)*	
84	"Meatchopper" U.S. M16 Half track	A. R. Glynn *(Sutton Coldfield)*	1/35
85	Opel Blitz	A. Carroll *(Sutton Coldfield)*	1/35
86	Two Napoleonic Figures at Table	T. Barker *(Camberley)*	90 mm.
87	"The Briefing" Napoleonic scene	T. Barker *(Camberley)*	54 mm.
88	"Left Beahinde"	S. Morris *(Hemel Hempstead)*	1/35
89	"The Defence of Rorke's Drift"	M. W. Norris *(Hampstead)*	54 mm.
90	Sanctuary	P. Woodman *(Rochdale)*	54 mm.
91	Wolves of the Steppes	P. Woodman *(Rochdale)*	54 mm.
92	"Hitchhiking"	R. D. Callow *(Brentwood)*	
93	"Pancho Villa", in the attack to "Torreon"	Lic. Pedro G. Bravo Guzman *(Mexico)*	54 mm.

the four most popular scales, sheets for AFV's in 3 scales and for the first time in the UK range for model railway enthusiasts in HO and N scales. Also available will be the range of Micro Scale Decal system products, the new Scalemaster Aircraft Decals and a wide selection of the latest plastic model kits.

Stand 76

Como SA. D.C. Electrical motors "Mabuchi" — gear boxes Como — small supplies for models and hobby appliance — mini-drill "385" with small tools for model appliance — submarine motor type Mabuchi — different tools for model appliances — rechargeable batteries — Portalac and Como electrical chargers type Como Chargers.

Stand 77

The Institution of Electrical Engineers and the **Institution of Mechanical Engineers** will have available on their stand, literature giving information on careers in electrical and mechanical engineering and outlining academic requirements and training prospects. There will also be an opportunity to talk to young professional engineers about their own work and life style. It is hoped by these means to provide a vivid and accurate account of what a career in engineering involves.

Stand 78

Historex Agents represent in the U.K. the French firm of Historex Aeros S.A. manufacturers of fine quality plastic model soldiers, artillery and vehicles, principally of the Napoleonic era. Unique amongst the plastic construction kit manufacturers Historex sell all their components as spare parts, a fact very much appreciated by the modelling fraternity.

Historex Agents will have on display superbly painted examples of their kits and also the many other companies products whom they represent such as Poste Militaire Sovereign by John Tasel, DCS by Francois Verlinden, Rouselot plates, Bucquoy books Funcken books. Pay a visit to the Historex stand at this, their 12th successive Model Engineer Exhibition and you will not be disappointed.

Stand 79

Beatties of London Ltd. will need no introduction to railway modellers but if you are new to the hobby you have a pleasant surprise awaiting you when you visit their stands. Beatties are Europe's leading model shops, a reputation they have gained through their efficient service to modellers whatever their interests. Specialising in Model Railways, their stocks of all makes and gauges is unsurpassed. In addition, they carry large stocks of Plastic Construction Kits and Hobby Crafts of all kinds. They also carry a range of tools for the hobbyist including airbrushes. There are always many interesting Special Exhibition Offers to be had and this could be your opportunity to start that new layout at a very reasonable cost, but visit Beatties' stands early as the experienced modellers know of this and bargains tend to be snapped up quickly! Beatties' staff are among the most knowledgeable in the business, they are all enthusiasts themselves so if you need advice or have a problem, don't hesitate to ask. All Beatties ask is that you are patient if their staff are busy when you call. Should you not find what you are seeking on any of Beatties' stands there is bound to be a branch near your home; in London they are situated in High Holborn, Lewisham, Wood Green and Southgate. Provincial branches are in Southampton, Bristol, Romford, Watford, Birmingham, Nottingham, Sheffield, Leeds, Liverpool, Manchester and Newcastle. So whatever your modelling needs you are bound to find them at Beatties.

Stand 83

W. Hobby Limited. Models of farm carts, carriages, coaches and milk floats. Kits of every description for the discerning model maker. Wooden wheels, plastic wheels, small tools of

every description including fretwork tools. Small clasps and hinges, screws and pins. Publishers of Hobby's Annual containing a feast of good things for the model maker.

Stand 84

Railmail Model Railways, Britain's number one supplier of model railways at discount prices, will have the latest ranges of model railway equipment on show at the usual DISCOUNT prices, plus of course, special show prices. Customers from all over the world take advantage of the mail order service that Railmail offer and also available fom the Railmail stand will be railmails. Special price list which is free of charge. A visit to Railmail will be worth your while for you will pick up some bargains.

Stand 85

Jim Davis Models established in 1970, has developed into one of the world's largest model retailers, dealing in all aspects of model making. Their Model Aircraft Display Team demonstrates model aircraft at shows all over England and France. The members are all active modellers, and their models are amongst the world's largest. Apart from retailing, manufacturing is a large part of the Jim Davis business — known as Model Aircraft Products (M.A.P.). We export to many countries and our mail order department covers the world. Why not try us for your requirements, help or advice? We do have the expertise.

Stand 87

Albion Scott Limited are internationally known suppliers of books for modellers and the modelling trade. Over 3000 titles are carried from 15 countries and some 150 publishers. There is no other comparable service in this country, and inquiries are welcome from trade and modellers at the show. A large range of MODELBOOKS is for sale at the stand.

Stand 88

Games Workshop. Science fiction and fantasy game specialists, Games Workshop make the largest selection of SF/F Games, miniature figures and rules in the world together with posters, cards and art books. Exclusive distributors for around 20 American manufacturers and publishers of "White Dwarf" magazine. Products include the best selling "Dungeons and Dragons" game and the award-winning Ral Partha range of miniatures both now produced in the U.K. under licence. Retail shop, mail order and trade.

Stand 89

Lenham Pottery offer a unique service for the model horse drawn vehicle builder who wishes to work to the highest standards. Books and plans by John Thompson and others. Authentic scale pottery model horses to suit most vehicles made to ⅛ and 1/12 scale, hand finished and all normal horse colours. Harnesses (in kit form) for heavy and light draught horses, model makers' materials including scale coach bolts with square nuts, people parts for diorama characters. Price lists and illustrated brochures available on the stand for mail order.

Stand 90

Puffers of 134A Kenton Road, Kenton, Harrow, Middlesex (Tel. 01-907 3521/8271), London's premier railway centre, caters for all model engineers. Whatever your interest or speciality, try Puffers for friendly and enthusiastic service. We have a wide range of kits with an emphasis on railways and also stock all the most popular ready-to-run items.

Stand 91

Skytrex Limited visitors can see all our usual extensive stock ranges plus: for wargamers new items for 1/300 microtanks, new publications, Asgard and Conquest Fantasy. For collectors, many new models including 1/3000 scale modern naval vessels and liners. 1/3000

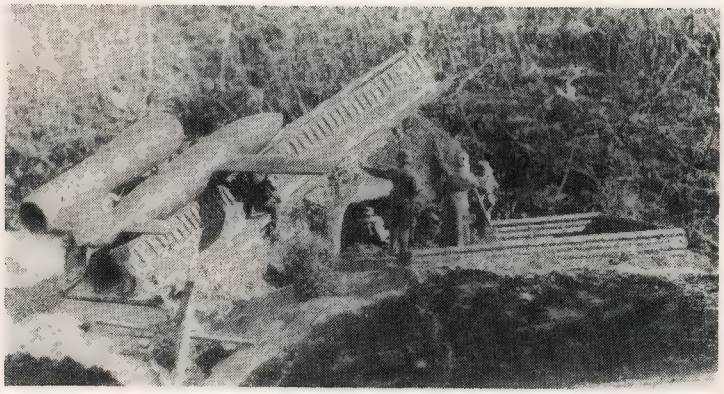
94	Invasion Arnhem 1944	P. Persighetti *(Rayleigh)*	1/32
95	Stray Mine off Malta 1941	T. Fodor *(Southampton)*	1/76
96	Panther Autumn 1944	T. I. Fodor *(Southampton)*	1/25
97	After the Raid	R. Clark *(Hailsham)*	1/48
98	One to Show the Wife and Kids	R. Dixon *(Coggeshall)*	1/35
99	The Standard is my Prize!	D. Brazil *(Wembley)*	1/32
100	Quietly Does It	G. S. Bean *(Wembley)*	1/35
101	Retreat from El Alamein	C. Tisdell *(Abbots Langley)*	1/35

CLASS MB: Unconverted Single Figures

No.	*Description*	*Name and Town*	*Scale*
1	Hussar of Lauzuns Legion	T. J. Morgan *(Dover)*	54 mm.
2	Grenadier de Ligne 1807	S. Mazonowicz *(Rochford)*	75 mm.
3	Sapper French Imperial Guard Foot Grenadiers	M. J. Roberts *(Pinner)*	54 mm.
4	The Old General	S. Holyfield *(Hertford)*	54 mm.
5	'Ma Cher Mamam!	A. G. Nutkins *(London)*	90 mm.
6	Officer Full Dress 17th Lancers 1830	R. D. Claydon *(Ilford)*	100 mm.
7	German Panzer Grenadier	P. M. Greenwood *(Brentwood)*	1/9
8	Trooper on Campaign	A. R. Phillips *(Reading)*	54 mm.
9	Napoleon in thought	G. Wheeler *(Minster Sheppey)*	54 mm.
10	Sir Francis Drake	H. E. Overington *(Maidenhead)*	77 mm.
11	Bengal Lancer 1901	C. Bee *(Cheltenham)*	54 mm.
12	General George Washington 1732-1799	J. Stratoon *(Crawley)*	54 mm.
13	Sailor "H.M.S. Ajax" 1944	J. Moffat *(Bicester)*	80 mm.
14	6th Dragoon Inniskilling	C. Watts *(Bradford)*	54 mm.
15	Sioux Brave	T. Crowley *(London)*	
16	Samurai of the Utsukai-Ban, Momoyama Period	A. A. P. Butler *(Teignmouth)*	90 mm.
17	Mounted Mamaluke	W. Jardine *(Barnet)*	54 mm.
18	Hussar & Dog	W. Jardine *(Barnet)*	77 mm.
19	German Landsknecht 1522	P. Marshall *(Leighton Buzzard)*	100 mm.
20	16th Century Mounted Samurai	Marshall *(Leighton Buzzard)*	90 mm.
21	Vive L'Empereur	G. E. Shackle *(Bolton)*	1/12
22	Waffen SS Trooper, Russia 1941	D. W. Probert *(Maidenhead)*	1/35
23	Roundhead Cavalryman 1642	C. Tisdell *(Abbots Langley)*	54 mm.
24	Sudden Death	M. Bolster *(Greenford)*	1/35
25	German Squad Leader	D. Brazil *(Wembley)*	1/25
26	German Artillery Officer	G. S. Bean *(Wembley)*	1/25
27	Carabiniers Mounted Kettle Drummer	R. Parker *(Camberwell)*	54 mm.

CLASS MC: Scratchbuilt Converted Single Figures

No.	*Description*	*Name and Town*	*Scale*
1	Two of the Queen's Men	G. M. Waugh *(Sunderland)*	
2	The Lady led her Champion by a silver chain	R. V. Hailes *(Stanmore)*	54 mm.
3	95th (Derbyshire) Private 1857-58	C. Tisdell *(Bedmond)*	54 mm.
4	The Trumpeter	D. R. Hadland *(Kenilworth)*	54 mm.
5	Samurai Warrior 13th Century	J. Curran *(Salford)*	
6	Samurai Warrior 13th Century	J. Curran *(Salford)*	
7	Legion Etranger, Mortar Company Dien Bien Phu	T. Groves *(London)*	1/12
8	Scots Border Horse, Ancrum 1545	R. Bolt *(Basildon)*	54 mm.
9	Bombardier — King's Troop Royal Horse Artillery 1978	J. M. Runnicles *(S. Harrow)*	1/12
10	8th Texas Cavalry	J. J. Todd *(Brentwood)*	54 mm.



The maiden flight of the V1. Entry MA19 by P. Marlow of Chatham.

11	Life Guard 1815	M. J. Roberts	*(Pinner)*	54 mm.
12	Chevau-Legers Lanciers 5'eme	T. Lewis	*(London)*	
13	Grenadier Guardsman 1910	W. J. Ralph	*(Portsmouth)*	
14	Imperial Yeomanry Scout, S. Africa 1901	J. A. Thomason	*(Cranleigh)*	54 mm.
15	Lasalle	S. Holyfield	*(Hertford)*	54 mm.
16	Hoplite	S. Holyfield	*(Hertford)*	
17	Polish Lancer (1st Reg. Lancer of the Guard) 1815	I. J. Kick	*(London)*	54 mm.
18	Persian Immortal	N. M. Orr	*(Chester)*	75 mm.
19	Unterscharfuhrer Waffen SS 1941	B. William	*(Nr. Malden)*	
20	Private 39th New York Volunteers 1861	D. J. Martin	*(Totton)*	1/12
21	Sgt. 11th Indiana Regt. 1861	D. J. Martin	*(Totton)*	1/12
22	Ancient Gaul 50 B.C.	C. M. King	*(Totnes)*	1/32
23	Capt. William Morris badly wounded Balaclava 1854	D. G. Parker	*(Newbury)*	54 mm.
24	Sturmann Hans Steiner	J. Pope	*(London)*	1/9
25	Number 2 on the M.G. Hun	J. Pope	*(London)*	1/8
26	2nd County of London Yeomanry 1902	J. Moffat	*(Bicester)*	54 mm.
27	Private — British Line Infantry	J. Moffat	*(Bicester)*	54 mm.
28	Officer British Line Infantry — America 1758	J. Moffat	*(Bicester)*	54 mm.
29	1st Cuirassier 1814	A. Allen	*(Ashford)*	54 mm.
30	Cavalier	G. Elliott	*(Kingsbury)*	54 mm.
31	"Standartenfuhrer Kranium; the expert"	D. Fairhead	*(Meopham)*	115 mm.
32	Gunner	C. J. Moseley	*(Stourbridge)*	54 mm.
33	Bosun Bradshaw	C. J. Moseley	*(Chatham)*	1/32
34	English Civil War Trooper	Z. M. Jarzembowski	*(London)*	1/12
35	"Tactical Consideration" Royal Sappers & Miners 1812-14	A. M. Sturgeon	*(Colchester)*	54 mm.
36	Centurion, Legio XX Valeria 53 A.D.	R. Hume	*(Northolt)*	54 mm.
37	Imperial Guard Standard Bearer 1812	J. England	*(Liss)*	1/12
38	The Well	D. J. Sullivan	*(London)*	54 mm.
39	French Marines of the Guard 1st Empire	D. J. Sullivan	*(London)*	54 mm.
40	Mounted Samurai	I. D. Wilmshurst	*(Maidstone)*	1/10
41	English Civil War Musketeer	R. H. Costello	*(Liverpool)*	
42	Mounted Figure of Sowar "Skinners Horse"	R. S. Bairstow	*(Halifax)*	
43	A Hunter From the Sky	T. Fodor	*(Southampton)*	

Civilian airliners plus additions to the WW1, WW2 and modern air ranges, the attractive 1/200 A.F.V. and Infantry range has also greatly expanded this year. Gauge road vehicles and accessories latest Skytrex railscene items in stock.

Stand 93

W.M.H. Models. We are a new company who started at the beginning of the year, producing a range of 90 mm. white metal military figures. We have an ever expanding and varied range, always intent on quality and definition. Our Master makers are Mr. W. Morris and Mr. G. Webster. We are a fully "self-contained" unit. We make, cast, animate and paint all our figures — always looking for new ideas, and customers' requirements gratefully considered.

Stand 94

Barrie Voisey Plans. The leaders in model wheelwright supplies a huge range of plans includes our new Reading Gypsy Caravan and David Wray and John Vince drawings. A new Dorset waggon kit has been added to the existing Tip cart Gypsy Caravan, Log Wagon, Stage Coach and Tinkers' Van kit. New wheel kits consisting of assembled Jelutong rims, square Jelutong spokes and beech hubs plus assembly instructions. See new catalogue for full range of model wheelwright accessories etc

Stand 95

John Piper (Accessories) Ltd. After taking various opinions from hobbyists and trade journals, they are unanimous that our products will fulfil markets which have been neglected Quality and reality have been the hallmark of John Piper Models, in the architectural and industrial fields, for many years.

Stand 96

Harry Butler (Models). Are you looking for a controllable model flying system suitable for back garden or indoor use? Must it also be clean, quiet, safe and simple to use, and suitable for the kids to use, yet at the same time accommodate sophisticated scale and aerobatic models? Of course it would also be nice if combat, racing and formation flying were possible; but by now you are probably thinking that this is all a pipe dream and asking just too much — not so! We have this system here at the exhibition. It is called "Electric round the Pole Flying" and it can be as versatile as you wish to make it.

Stand 97

Gloy's 63-colour range of model enamels — gloss, matt and metallics — and the new specially-formulated thinners for paints and enamels will be shown on this stand. The extensive range of Gloy adhesives will also be featured, including fast-setting and regular epoxies, Cyano-acrylate, woodworking pva/aliphatic (Gloy Titebond), latex, contact, pvc and clear adhesives, bals. cement, polystyrene cement and liquid polystyrene. Gloy are introducing a unique dotter/spreader cap on their Children's Glue and Multiglue (pva) squeeze packs.

Stand 98

As usual, **Seagull Model** are exhibiting some of the best known and most popular ranges in the military modelling field. We have on show figures by Stadden Studios, Tradition, Ensign, Phoenix and others, and this year we have pleasure in representing exclusively the collection of Remanenus figures from France.

Realmodels Ltd, the manufacturing division of the two companies, is now in its third year of production. This year affords customers the opportunity to see how far this series has progressed.

As well as figures, we are showing a selection of books, kits, tools and other accessories to aid the modeller, and as always, our staff will be on hand to advise newcomers to the hobby.

For those of a less military turn of mind, we offer a wide range of paper models, and the superb "Bygone Age" Victorian cart and carriage kits.

Whatever your inclination in the model world, whether as expert, enthusiast or "just interested", we look forward to seeing you during your visit to the exhibition.

Stand 100

On the **New Hope** Design stand, you can see much of the fine range of metal figures produced by this company. There are not only military figures available. For railway and ship modellers, for aircraft enthusiasts and for all those who appreciate quality, there is quite likely to be something worth seeing.

Stand 101

Osprey Publishing will once again be displaying a wide selection from their impressive book list. Apart from the Men-at-Arms series, Airwar and Vanguard titles are also available for perusal — as well as some of the many hard back volumes of interest to modellers. Browse around with Osprey Publishing to find that book that should be in your collection.

Stand 102

J. Simble & Sons. On show at Simbles is a large selection of hand tools, transmission equipment and machinery. Probably one of the largest tool and machinery mail order firms in the country we have special arrangements for orders taken at the exhibition to be despatched within 48 hours — direct to your door. A comprehensive catalogue complete with up to date price list is available. Price 40p. We have a large permanent display of all tools and machinery at our premises

Stand 104

Prince August Moulds Ltd. Prince August produces a complete range of home casting kits, a wide variety of moulds and all the equipment needed for casting, i e burners, ladles, clamps, files, and casting metal. The tough long lasting moulds cover numerous subjects and are constantly expanding. Subjects include soldiers of the Lace Wars, Wild West figures, sportsmen and animals Also an entirely new series for the discerning collector will be launched at the Exhibition

Stand 105

Starcast Miniatures. On show and well known to the old hands are the range of Starcast 1/2400 scale WW1 and WW2 warships together with Micro Matrix 1/1000 Napoleonic warships. Now seen for the first time is a beautiful new range of 1/1000 Elizabethan ships. Alan Newsons Fantasia Myth Fig range of wargames figures is displayed along with Starcast reintroduced range of mini-armour for micro wargamers. Model soldier collectors can see the super detailed 80 mm George Haynes collection

Stand 106

Dek Military Models (All the Queen's Men") have been trading only eighteen months, yet are already firmly entrenched at the higher quality end of the military modelling market Today their range encompasses well over forty foot figures, two mounted kettledrummers and nearly five hundred miniature badges Besides extensive additional coverage of the British Armed Services, future plans include a new series of fascinating two-figure vignettes plus a range of accessory packs for conversion enthusiasts

Stand 108

Hinchliffe Models Limited welcome everybody once again to our stand at the M.E. Come along and see what we believe is the World's most comprehensive military modelling collection This year we have exciting new products to show you including a superb display of painted pieces Our design/technical staff are here looking forward to chatting to you and showing you our complete range of products All scales from 15 mm to 90 mm — come and see us

44	"Legio Expeditus/Roman Legionary in Battle Order	G. E. Shackle *(Bolton)*	1/12
45	"Landsknecht"	G. E. Shackle *(Bolton)*	1/12
46	"Legio Impedimus/Roman Legionary in Marching Order	G. E. Shackle *(Bolton)*	1/12

CLASS MD: Single Military Vehicles or Artillery Pieces (without figures)

No.	*Description*	*Name and Town*	*Scale*
1	Churchill Crocodile	R. Mussett *(Rickmansworth)*	1/35
2	Meatchopper	C. Webb *(Barham)*	1/35
3	Lancier 3rd and DA/90 gun	C. Miners *(Cheltenham)*	1/38
4	Centurion A.R.V.	C. Miners *(Cheltenham)*	1/35
5	Brass Cannon (American Civil War)	K. Fielden *(London)*	
6	British Universal Carrier Mk. II	M. J. Roberts *(Pinner)*	1/35
7	REME L.A.D. Half track	F. R. Wigley *(Windsor)*	1/35
8	1914-18 Vauxhall D Type Staff Car	R. C. Lightheart *(Welling)*	1/76
9	1914-18 B-Type Bus/Mobile Pigeon Loft	R. C. Lightheart *(Welling)*	1/76
10	1781 British 8 inch Howitzer	R. Kazmierowski *(Illinois U.S.A.)*	1/16
11	Gone for Lunch (SdKfz 222 in France)	T. Evans *(Coventry)*	1/35
12	British Birch Gun Mk II	J. A. Thomason *(Cranleigh)*	1/76
13	Vickers Mk IIA Medium Tank	J. A. Thomason *(Cranleigh)*	1/35
14	Kameradschaft	I. Brightman *(London)*	1/35
15	The Empty Hanomag	T. Evans *(Coventry)*	1/35
16	Truck — Canadian Military Pattern 4 x 4 — 1944	R. A. Banham *(Ramsgate)*	1/35
17	PzKpfw III Ausf F. Russian Front 1941	R. D. Banham *(Ramsgate)*	1/48
18	T34/76	J. Honey *(Billericay)*	
19	Sherman A3	J. Barrett *(Dunstable)*	1/35
20	Scratchbuilt Soviet Bt-7 Fast Tank, 1/76 scale	R. P. Engert *(New York, U.S.A.)*	1/76
21	Late Production Model of RAM II	N. M. Orr *(Chester)*	1/32
22	"Panturion"	V. Barbic *(Salisbury)*	1/35
23	Sherman M-51 of the Israeli Defence Forces	V. Barbic *(Salisbury)*	1/32
24	Egyptian early type T-54, Sinai 1967	V. Barbic *(Salisbury)*	1/32
25	M3 Lee — American Medium Tank	J. G. Silcock *(Hale)*	1/32
26	Valentine Tank	T. Sheldon *(Sutton Coldfield)*	1/35
27	S.D.K.F.Z.3 Opel Maultier	T. Sheldon *(Sutton Coldfield)*	1/35
28	M5 High Speed Tractor with 155 mm. Long Tom	L. Ingram *(Tamworth)*	1/48
29	Centurion Barb	L. Ingram *(Tamworth)*	1/48
30	Chieftain A.V.L.B.	L. Ingram *(Tamworth)*	1/48
31	A.C.V. H.P. & L.P. (AEC) T. 6 x 6 Mk 1	P. Webster *(Sutton Coldfield)*	1/35
32	British L.R.D.G. Chevrolet	S. J. Hellier *(Brixham)*	
33	Zundapp, Sidecar	T. Fodor *(Southampton)*	1/9
34	Pzkpfw II F 116th Panzer Division	D. W. Probert *(Maidenhead)*	1/72
35	American World War II Ammunition Carrier	B. Mitchell *(Broadstairs)*	1/48
36	Austin K5 3 ton British Army Truck	B. Mitchell *(Broadstairs)*	1/48
37	105 mm. Field Howitzer (German WW II)	T. Fodor *(Southampton)*	1/32
38	"Ronson" (Normandy 1944)	T. Fodor *(Southampton)*	1/35

CLASS MW: Wargames Unit

No.	Description	Name and Town	Scale
1	Samurai	I. Ibbotson *(Camberley)*	25 mm.
2	Horse Artillery of the Guard	S. Oliver *(Teddington)*	25 mm.
3	Napoleon	D. Bloor *(London)*	1/72
4	Chasseurs A'Cheval	P. J. Wilson *(London)*	25 mm.
5	Romans 1st Century A.D.	P. J. Wilson *(London)*	
6	Alexandrian Phalanx (Babylon 323 B.C.)	J. Howlett *(Hurstpierpoint)*	
7	King's Lifeguard of Horse (Troop of the Show) 1642	M. McCombie *(Portsmouth)*	15 mm.
8	1st Battalion 3rd Swiss Regiment in French Service, 1812	S. Prentice *(Cardiff)*	25 mm.
9	1st Batt. 2nd Regt. of Nassau 1815	K. T. Andrews *(Sutton Coldfield)*	20 mm.
10	The Carrocio of Milan and its Guard c.1176	N. Jackson *(Halesowen)*	25 mm.

CLASS MJ1: Single Figures by Junior Entrants

No.	Description	Name and Town	Scale
1	The Wounded	T. Kestla *(East Ham)*	54 mm.
2	Warum?	D. Ashby *(Harefield)*	1/9
3	SS Panzer Grenadier Crete 1941	C. Tisdell *(Bedmond)*	1/32
4	1st Bengal Lancer (Skinners Horse)	S. Edwards *(Petts Wood)*	54 mm.
5	Lancer Resting	C. Nicolaou *(Southgate)*	54 mm.
6	The Last Shot, Westminster Dragoons S. Africa 1902	T. Groves *(London)*	1/12
7	The Rainy Season	D. Honigman *(Beaconsfield)*	54 mm.
8	Refreshment Kings Regiment India 1857	I. G. Standen *(Surbiton)*	54 mm.
9	Field Kitchen	M. Edwards *(St. Albans)*	1/35
10	10th British Hussar 1815	C. Woodall *(Balham)*	54 mm.
11	Chasseur D'Afrique 1885	J. Stevens *(Nr. Truro)*	54 mm.
12	Polish Lancer	T. Cuss *(Ruislip)*	1/32
13	"Death of a Lancer"	S. Parish *(Warwick)*	54 mm.
14	Prussian Jager 1914	P. Coppack *(Mickle Trafford)*	1/12
15	Panzergrenadier, Gefreiter	S. Weaver *(Cranleigh)*	1/35
16	Sergeant Major Richards at Rolica	G. Wheeler *(Sheppey)*	
17	Trooper 4th Regiment of Prussian Hussars 1750's	D. G. Parker *(Newbury)*	90 mm.
18	U.S. Marine on base with rifle	T. Rich *(Harpenden)*	1/32
19	Encounter — 2nd Belgian Carabinier	C. J. W. Weir *(Yelverton)*	54 mm.
20	1st Skinners Horse Bengal Lancer 1900	C. Allen *(Ashford)*	54 mm.
21	Tambours La Charge, Marshal Ney, Russia 1812	S. Prentice *(Cardiff)*	54 mm.
22	Troop Officer British R.H.A. 1811	G. E. Scopes *(Tadworth)*	54 mm.
23	German Officer 1944	P. Brinham *(Upminster)*	1/35
24	Officer 4th Regt 1804-07 (Mounted)	J. Davidson *(London)*	54 mm.
25	German Paratrooper (Fallschirmjager) 1944	P. D. Mason *(Sutton Coldfield)*	1/35
26	Trumpeter 1st Dragoons 1909	R. Brandon *(Sutton Coldfield)*	90 mm.
27	Royal Scots Grey, Napoleonic Period	T. Barker *(Camberley)*	100 mm.
28	British Infantryman	A. McKerrell *(Chiswick)*	54 mm.
29	"Fighting Dirty"	S. Morris *(Hemel Hempstead)*	54 mm.
30	An Officer of the Marines	D. F. McBride *(Hove)*	54 mm.
31	Alone & Lost	A. N. Vengurlekar *(Edgware)*	1/35

Stand 110

R.N.L.I. Romford & Dagenham Model Boat Club Section. On the stand will be shown the club's large scale diorama of "Sword Beach" D-Day also on the stand will be over twenty of the club's boat model entries to the Exhibitions Junior section.

Stand 111

Ken Trotman Arms Books are mail-order specialists dealing in new and out-of-print books (including rare and antiquarian titles) on all aspects of militaria and military history. — ranging in value from 50p to £500. They produce regular catalogues on Artillery, fortifications, tanks and AFV's, modern and antique firearms, swords and bayonets, bows and archery, armour, uniforms, badges and military history. Based in Hampstead, they have an unrivalled stock of some 10,000 volumes.

Stand 112

Trevis Andyrange Diorama Accessories. Andyrange present a wide range of military and railway (sectional and low relief) tunnel entrances etc., cast in "natural" plaster and sculptured by top modellers, Jim Booth, Max Longhurst, and Graham Brown. Easily painted with a wash of oils thinned with a suitable thinners or enamel paints if preferred. Also the versatile Andyclamp for supporting figures, horses up to 54 mm, railway signals and those awkward little pieces steady for painting or working on.

Stand 113

Nathan Shestopal Ltd. has been established for 70 years as one of the major suppliers of tools and materials to the Watch and Clock industry. The tools and equipment used in these industries are naturally very suited to precision engineers and model makers. A special feature this year will be the live demonstration of a clock being made from basic kit form on the Unimat 3 lathe.

Stand 114

Brant Wright Associates. The Horological Journal will be available in its new format. A larger size, with bigger photos and clearer layouts, the December issue will have 32 pages of colour. An important new Wilding series: the construction of a simple clock using the Unimat lathe and intended for beginners in lathework as well as clockmaking. John Wilding will be making this clock on the Exhibition stand. All Wilding books will be available at special prices.

Stand 115

The Art Veneers Company Ltd. manufacturers of the latest Pre-Cut, Iron-On Chess and Back Gammon Board kits, plus a very wide range of Veneers Packs and Marquetry kits. Rare and exotic veneers for cabinet making restoration of antiques and guitar making.

Specialists in all the necessary back-up material including adhesives, polishes, bandings, plans, books, tools, clock movements, dials, etc., etc. Send for full details to: The Art Veneers Company, Industrial Estate, Mildenhall, Suffolk IP28 7AY.

Stand 116

Designed and produced by engineers with model makers' requirements in mind we are pleased to introduce the **Versa-Vice.** This unique combination of 8 hand tools in 1, provides a most useful addition to any model maker or D.I.Y. enthusiast kit. The device, robustly made up from pressure diecasting and plated steel parts, makes a hand vice, width gauge, depth gauge; scribing bar; G clamp; table vice, anvil plate with template "V" and marking out table. Designed and manufactured by H. R. Holmes Diecasting and Co. Ltd.

Stand 117

Master Distributors (U.K.) Ltd. Cler Site Lens Cleaner. Once again our demonstrators will be cleaning your spectacles FREE OF CHARGE to let you see the benefit of a really clean lens. When working on your models with either spectacles or magnifying glasses you often experience that irritating "misting up" Cler Site will totally prevent this in any situation or temperature. Of course, there are many other situations where real benefit can be obtained, why not come along to our stand No. 117 and see for yourself.

Stand 118

The Model Yachting Association. On display on the MYA stand will be some top class boats both vane and radio controlled. Experienced model yachtsmen will be available to answer any questions about this increasingly popular sport. The MYA aims to further interest in the design, building and sailing of model racing yachts and this is realised by clubs' activities in organising club, open, district, national and international championships.

Stand 119

The Model Power Boat Association is a national body formed to help and regularise the hobby of model power boat enthusiasts in either free sailing or competition. The power used varies from steam, electrical through to internal combustion for powering, models built to a small scale of full size ships and boats.

AVON SUITE

Stand A1

The Kite Store was the first shop of its kind in Britain set up to provide for the needs of Kite Flyers. Through our two shops in London and Bristol we sell a wide range of Kites, Reels, Books, Materials and other new flying ideas. A high proportion of our Kites are made and designed by the country's leading Kite Flyers. We also import direct from many countries around the world to give you the very best range and value anywhere.

Stand A2

Labscience Technical Services as well as services to high technology and the scientific field are now supplying unique products such as the LINSAW and ASBO all purpose drill bit. Both these products will cut the hardest of metals and one metals, meanwhile the Linsaw which fits on standard hacksaw frame is completely shatterproof.

Stand A3

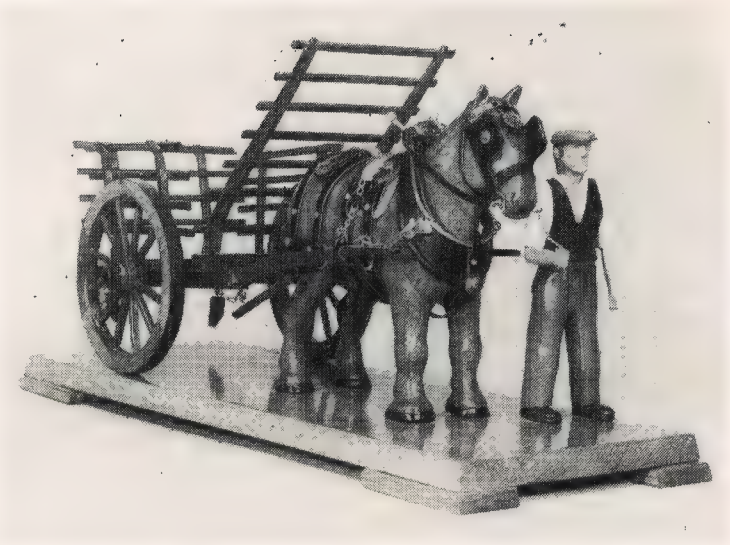
The Manpower Services Commission, 180 High Holborn, London WC1 (01 836 5400) through their Training Services Division operate the TOPS retraining scheme to give new skills to those wishing to change trades. Their stand shows what they can offer you.

Stand A4

Multicraft will be showing our range of gold and silver items — rings, bangles, chains etc. The range has been increased during the last year and includes many new designs. Our policy of hand finishing all our jewellery keeps the quality up to its usual high standard; we make to a standard not to a price. This year we will also be making available a small range of our quality castings, with a selection of stones for mounting; suitable for the advanced amateur or a person with metalwork experience.

Stand A5

Horseshoe Nail Craft. Horseshoe nails may seem out of place anywhere but in a stable and certainly do not sound a very promising material for elegant jewellery. However they lend themselves as an interesting and unusual craft material and in young Stephen Carn's hands they become intricate even delicate shapes at the twist of a pair of pliers. Demonstrations daily during the Show.



Ronald Carver's Jersey hay cart, shire and carter. Photo by Geo. Bushell & Son.

CLASS MJ2: Single Military Vehicles or Artillery Pieces (Junior)

No.	*Description*	*Name and Town*	*Scale*
1	A German AA Gun, Russia 1943	C. Tisdell *(Abbots Langley)*	1/35
2	Tiger 1 Russia 1943	I. Hockington *(West Drayton)*	1/35
3	Special Air Service Jeep	S. Hexter *(Rochford)*	1/35
4	1/35 Churchill AVRE Facine Carrier	M. C. Duston *(Newquay)*	1/35
5	German Hanomag SDK Fz 251/1	R. Brooke *(London)*	1/35
6	1914-18 Ford T. Ambulance	C. A. Lightheart *(Welling)*	1/32
7	US M16 Half Track	S. Parish *(Warwick)*	1/35
8	Model Soldier Diorama "D" Day Landing	A. Manning *(Wendover)*	
9	Barbarossa — 1941	M. Owen *(Exeter)*	1/35
10	Wespe in the Desert 1942	A. Dingley *(Liverpool)*	1/76
11	Tiger I	I. Shreeve *(Congleton)*	1/35
12	Semovente Assault Gun 1941	D. G. Parker *(Newbury)*	1/35
13	Mk 1 Sherman Tank	I. Prentice *(London)*	1/76
14	"Out of Service" 7.5 cm. Light Infantry Gun	C. J. W. Weir *(Yelverton)*	1/35
15	Tiger (P) Elefant (SD-Kfz 184s) German self propelled gun	J. D. Brenton *(Carpenters Park)*	1/35
16	Ambush	T. M. Cook *(Meopham)*	1/35
17	Internal Problems . . . Channel Islands (Guernsey) Oct. 1944	N. R. Cartwright *(Meopham)*	1/35
18	Sdkfz 10 1 ton tractor with 7.5 cm gun	S. Weaver *(Cranleigh)*	1/35
19	L.R.D.G. Patrol	A. Carroll *(Sutton Coldfield)*	1/35
20	Matilda Mk II	R. K. Glynn *(Sutton Coldfield)*	1/35
21	"Abandoned"	S. Morris *(Hemel Hempstead)*	1/35
22	"On the Road" An American Jeep on Patrol	P. Hingley *(W. Midlands)*	1/35
23	Sherman M4A1	E. Stringer *(Watford)*	
24	Shorland S.B.301 Armoured Patrol Car	N. Cope *(Nottinghamshire)*	1/35
25	Marder II tank with infantry	S. Powell *(Chelmsford)*	
26	222 AC and 1 crewman on scenic base	S. V. Masterson *(Bury)*	1/35

CLASS MS1: Single Figures, foot or mounted

No.	Description	Name and Town	Scale
1	Berkshire Yeomanry	W. Elliott *(Kingsbury NW9)*	54 mm.
2	Hampshire Yeomanry	S. Harry *(S. Harrow)*	54 mm.
3	Hampshire Yeomanry 1897	W. J. Ralph *(Portsmouth)*	1/6
4	Officer Berkshire Yeomanry 1901	J. A. Thomason *(Cranleigh)*	54 mm.
5	Captain, Berkshire Yeomanry	R. Holding *(Aylesbury)*	1/12
6	Trooper — Hampshire Yeomanry 1897	L. W. G. Kerridge *(Uxbridge)*	1/6
7	Trooper Hampshire Yeomanry 1897	J. Colthorpe *(Sidcup)*	1/11
8	Officer of Hampshire Yeomanry 1897	J. Howlett *(Hurstpierpoint)*	1/12
9	Sergeant Major Berkshire Yeomanry c.1900	B. M. Dixon *(Birmingham)*	1/6
10	Berkshire Yeomanry, Trooper in Mounted Escort Order	D. Prior *(Swindon)*	1/32
11	Officer of the Hampshire Yeomanry 1897	A. J. Snell *(Perth)*	54 mm.

CLASS WGA: Farm Carts, Waggons and Brewers' Drays

No.	Description	Name and Town	Scale
1	Young & Co. Brewers' Dray	A. Wilkinson *(Wimborne)*	1/10
2	Dorset Waggon	N. Roney *(Winterbourne)*	
3	Oxfordshire Farm Waggon	R. J. Hawes *(Morden)*	1/8
4	Monmouthshire Farm Waggon	A. E. Everett *(W. Drayton)*	1/12
5	Wiltshire Farm Waggon	A. J. Lown *(Croydon)*	1/8
6	Jersey Hay Cart, Shire and Carter	R. R. Carver *(Old Windsor)*	1/12
7	Mann's Brewers' Show Dray	K. Beckhurst *(London)*	1/7
8	Buckinghamshire Farm Waggon	A. W. Hayes *(Enfield)*	1/8
9	Essex Waggon	E. H. Horne *(Ilford)*	1/8
10	Oxfordshire Hoop Raved Waggon (Woodstock)	E. H. Horne *(Ilford)*	1/8
11	Turnwrest Plough	E. H. Horne *(Ilford)*	1/8
12	Oxfordshire Farm Waggon	S. Waite *(London)*	1/12
13	Montgomery Farm Waggon	R. T. Jenks *(Cardiff)*	1/8
14	Somerset Double Shafted Waggon	K. C. Bool *(Windsor)*	1/8
15	Lake District Cart	J. Power *(High Wycombe)*	1/10
16	Dorset Waggon and Horse	C. R. A. Pratt *(Hoddesdon)*	1/8
17	Conestoga Waggon	H. J. Foote, B. T. Foote *(Wimborne)*	1/12

CLASS WGB: Caravans, Coaches/Carriages

No.	Description	Name and Town	Scale
1	Romany Rose Gypsy Caravan	J. E. Charlton *(Reading)*	1/8
2	Ledge Waggon Gypsy Caravan	H. Hancock *(Worksop)*	
3	Romany Caravan	D. Roberts *(Prestatyn)*	
4	Gypsy Ledge Caravan Horse and Harness	G. Malins *(Sth. Ruislip)*	

CLASS: Hot air Engines

No.	Description	Name and Town	Scale
1	Horizontally opposed Twin Hot Air Engine	F. Brian-Thomas *(Hereford)*	
2	Denney Ericsson	T. H. Mallett *(Harrow)*	
3	12 Cylinder Rider Engine	W. D. Urwick *(Malta)*	

CLASS: Students' Cup

No.	Description	Name and Town	Scale
1	5 in. gauge 4-6-0 Torquay Manor Steam Locomotive	Westinghouse Brake & Signal Co. *(Chippenham)*	5 in.
2	7¼ in. gauge 0-6-0 Saddle Tank Loco.	Chew Valley School *(Bristol)*	7¼ in.
3	Beam Engine	Herefordshire Technical College *(Hereford)*	

Stand A6

Ashdown Models. High quality scale models for transport enthusiasts.
Combined Optical Industries Ltd. Plastic lenses, magnifiers and inspection aids.
David MacGregor Plans. Finely detailed plans of many named vessels.
Graham Engineering (Midlands) Ltd. Tool and machinery suppliers.
The Mettoy Company Ltd. Toy manufacturers of the world famous Corgi models.
P.E.M.S. Ltd. Precision engineers and model makers.
Phoenix Model Developments Ltd. White metal and pewter miniatures.

Stand A7

DIP Film Products Ltd. Railway Street, Braintree, Essex. Telephone No. (0376) 22912. General Craft lines with regular demonstrations of Dip-it fantasy films will be given and many other crafts such as Peg miniature furniture, macrame and feathercraft will be shown.

Stand A8

Emjems (Cornish Arts & Crafts Ltd.) have a selection of tumble polishing machines, grits, rough gemstones and all you need to begin the fascinating lapidary hobby. Plus mineral and fossil specimens from all over the world; an extensive range of base metal and silver findings with everything to go with them for the jewellery maker. Not forgetting our range of hand set gemstone jewellery and silver chains to keep the model "widows" happy!

Stand A9

I & D Electronics. R.C. Model Cars. Electronic Speed controllers for cars, boats and aeroplanes. Electronic components for electric models e.g. resistors, capacitors transistors etc. Material for model cars, e.g. polycarbonate and polypropylene sheet etc.

Stand A10

Quercus Gemcraft has an extensive range of gold and silver jewellery at competitive prices — our rings are really something special and our bracelets and chokers sell themselves. Our enamels are handmade using traditional techniques and include a unique range using our own copper stampings (we manufacture over 150 different shapes).

Stand A11

Hegner Limited. New! Here is the saw you have waited for. Will cut straight or winding cuts through 50 mm. thick wood, 10 mm. mild steel, copper, brass, 30 mm. plastic. Safe in use, ideal for professional use, handyman, schools, occupational therapy units, etc. The patented blade and tensioning system practically eliminates breakages. See it working — you will be won over by its amazing features. Agent for the British Isles, 36 Great Eastern Road, Hockley, Essex. 03704 5669.

Stand A12

Phil Greeno Models Ltd

Stand A13

Ted Longshaw will have all types of radio controlled cars, 1/8th scale and 1/12th electric. Specialists in racing spares, kits, engines, tyres plus unrivalled experience to help you choose.

Stand A14

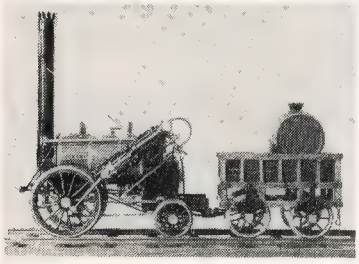
Town and Country Amber Cocktail Mats make custom-made cocktail mats and specialise in every conceivable aspect of drink mates with pictures appertaining to people's hobbies and interest. The mats are 4¼" x 3½" x ⅛", 11 x 8½ cm. x 4 mm. thick. The mat is of a solid material and pictures coated with a superb laminated heat and alcohol proof finish and attractively boxed in 6 or 8 or 10 different mats in a box. Titles such as British Army figures, British Empire badges, Traction engines, etc.

Stand A15a

Genasco. Genasco clamps are designed to assist in the manufacture and/or the construction of any product where the use of a powerful yet unobtrusive clamping action is required. Genasco clamps can be applied without the impediment of adjustment. The applicator being used only for siting or removal. Genasco patented clamps will be of particular interest to model makers of all classes as a precision tool in helping to gain the perfection they require.

Stand A16

W. R. Hersant Limited. The Cholmeley Bookshop of Archway Road, Highgate, London N6 have been Specialist Booksellers for over 50 years. On our stand in the Avon Suite we have a selection of our large and comprehensive stocks of British and imported titles in Aviation. Military, Naval and Transport subjects for modellers and wargamers.



Stand A18

Society of Model Aeronautical Engineers. If you fly any sort of model aircraft — control line, radio-controlled or free-flight — the SMAE is the one organisation to protect your interests throughout Britain. Now, more than ever, with fewer sites available for model flying, and tighter limitations on their use, it is only with the help and experience of the national Society that you can be sure of getting the very best facilities for all branches of our sport. For the 90 per cent of SMAE members who never take part in national competitions this reason alone is often sufficient for joining, but the Society has overall responsibility for all aspects of model flying, including organisation of national and international competitions.

Stand A19

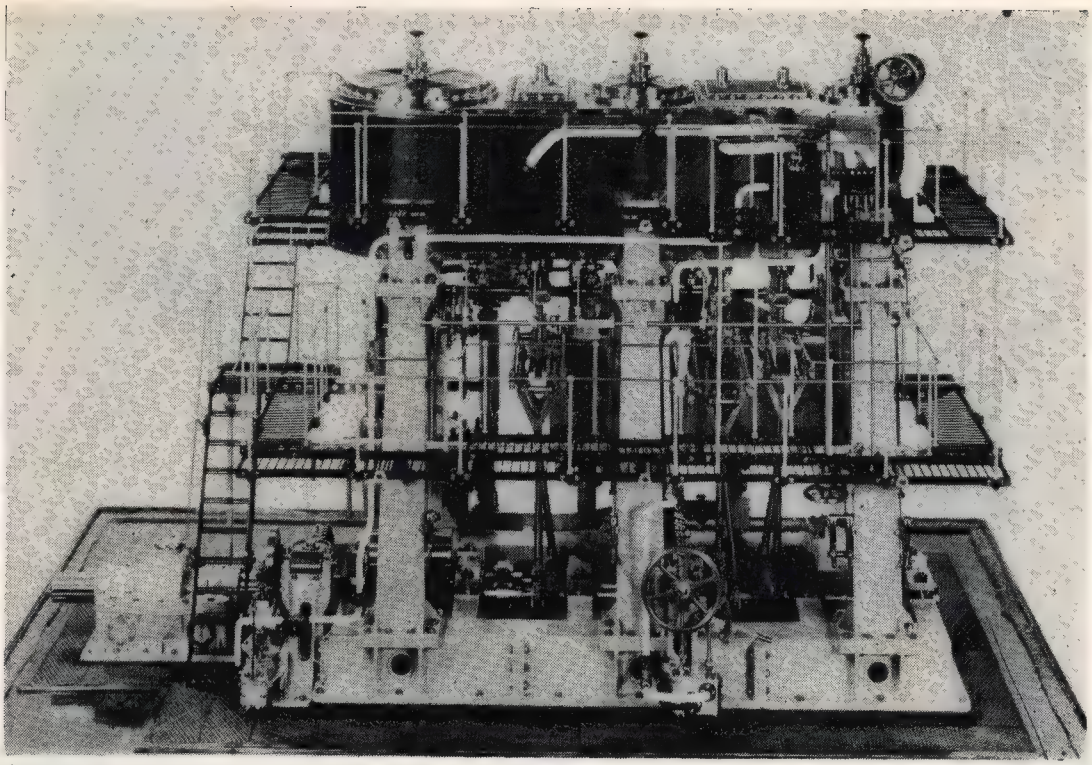
The British Model Soldier Society, was formed in 1935. It is a non-commercial organisation existing solely for the benefit of its members and has a world wide membership of over 1000 people. The main meetings of the Society take place in London but there are approximately 20 branches around the country. The Society publishes a bulletin four times a year which is automatically received by its members. The Society is the oldest one of its type in this country. Why don't you come and meet us on Stand A19.

Stand A20

Model & Allied Publications Limited publish the world's largest range of model magazines and plans for making models of all kinds. Every type of interest is catered for and all the magazines will be displayed on the stand for visitors to examine. They include *Model Engineer, Aeromodeller, Model Boats, Radio Control Models & Electronics, Scale Models, Military Modelling, Model Railways* and the two craft magazines *Woodworker* and *Gem Craft.* Famous for their high quality, modellers read them in every corner of the world. MAP also publish *Photography, Movie Maker, Motorcyclist Illustrated* and *Puzzles Digest,* plus the new magazines *Clocks, Underwater World, Model Mechanics* and *Puzzler's World.* Some of MAP's special "One off" titles will also be available. The new 1978/79 editions of MAP's four Plans Handbooks will be displayed covering Aero-modelling, Model Boats & Cars. Model Engineering and Radio Controlled Models.

CLASS: Loan Models

No.	*Description*	*Name and Town*	*Scale*
1	5 in. gauge 0-4-2 "Lion" Liverpool and Manchester Railway	L. A. Saxby *(Hillingdon)*	
2	5 in. gauge London, Chatham Dover Railway 2-4-0 "Asia"	L. A. Saxby *(Hillingdon)*	
3	L.N.W.R. Southern Division 2-2-2 No. 227 of 1849 "Mac's Mangle"	G. Lindsey *(Stockport)*	1/16
4	"Salamander" Functional Straight Runner	R. C. Jackson *(London)*	
5	"Medway Queen" Paddle Steamer	R. C. Jackson *(London)*	1/32
6	Rudge Rotary Tricycle 1880	C. F. Adams *(Ruislip)*	1/16
7	Salvo Royal Tricycle c. 1880	C. F. Adams *(Ruislip)*	1/16
8	Singer Tricycle c. 1879	C. F. Adams *(Ruislip)*	1/16
9	Clayton Undertype Steam Waggon	R. H. Dyer *(Warwick)*	1/6
10	"Suffolk" Steam Dredging Tractor	J. Haining *(Tredunnock)*	1/4
11	7½ cc. 5 cylinder Radial Aero Engine	L. C. Mason *(London)*	
12	4 cc. 4 cylinder O.H.V. Petrol Engine	L. C. Mason *(London)*	
13	Clayton Undertype Wagon chassis	R. M. Copley *(Hemel Hempstead)*	1/6
14	Full Rig Ship	Major R. Scale *(Perranporth)*	
15	H.M.S. Nelson	Major R. D. Scale *(Perranporth)*	
16	Darby Savage Digging Engine	C. Tyler *(Reading)*	1/6
17	Fowler Class BB1 Ploughing Engine	C. Tyler *(Reading)*	1/6
18	Aircraft models from paper	M. C. Bostock *(Birmingham)*	1/72
19	Seventeenth Century Sixth Rate	Capt. K. M. Gosling *(Sussex)*	1/125
20	A.F. Type Aveling & Porter road Roller	C. Hinds *(Malvern)*	
21	Vertical Twin — Free Lance	C. Hinds *(Malvern)*	
22	5 in. gauge G.W.R. Saint Class Loco	F. Cottam *(St. Albans)*	
23	7¼ in. gauge G.E.R. Y.14 0-6-0 Loco and Tender Chassis	P. J. Dupen *(Woodham Mortimer)*	1/8
24	Tamiya models that have appeared in M.A.P. magazines	W. J. E. Wylie *(Erith)*	
25	Tamiya models that have appeared in M.A.P. magazines	W. J. E. Wylie *(Erith)*	
26	4 in. scale Foden	T. Morris *(Wolverhampton)*	4 in.
27	George Stephenson's "Rocket" 3½ in. gauge	R. H. Proctor *(Reading)*	
28	G.W.R. 14XX Class Loco 7¼ in. gauge	H. J. Saunders *(Chatham)*	
29	"130 Engines"	J. D. McHard *(Liverpool)*	
30	Striking, Chiming and Musical Bracket Clock	The Late, C. B. Reeve	
31	"Caernarvon Castle"	P. Lambert *(Harpenden)*	
32	"Jersey Lily" Don Young's design of the G.C.R. Atlantic	L. A. Green *(Petersfield)*	
33	Northrop P-61A Black Widow	B. Taylor *(Chard)*	
34	5 in. gauge Locomotive Boiler with water tube firebox	M. Evans *(Daventry)*	
35	3½ in. G.W.R. King Class Loco	L. Joyce *(London)*	
36	"Sentinel" Waggon	R. St. Croix *(Rye)*	
37	Fournier RF & D	M. Reeves *(March)*	1/4
38	Hurricane IIb	M. Reeves *(March)*	1/6
39	7¼ in. gauge Loco "Tich"	W. J. Manley *(Exeter)*	7¼
40	5 in. gauge Loco "Ajax"	W. J. Manley *(Exeter)*	
42	Triple Expansion Marine Engine	G. E. Hartung *(Surbiton)*	
43	Bellis & Morcom Triple Expansion Engine	G. E. Hartung *(Gravesend)*	1/12
44	Half finished model of a 17th Century 120 gun Spanish Ship of the Line	Capt. K. M. Gosling *(Barnham)*	



George Hartung's Triple Expansion Marine Engine to be seen in the loan section.

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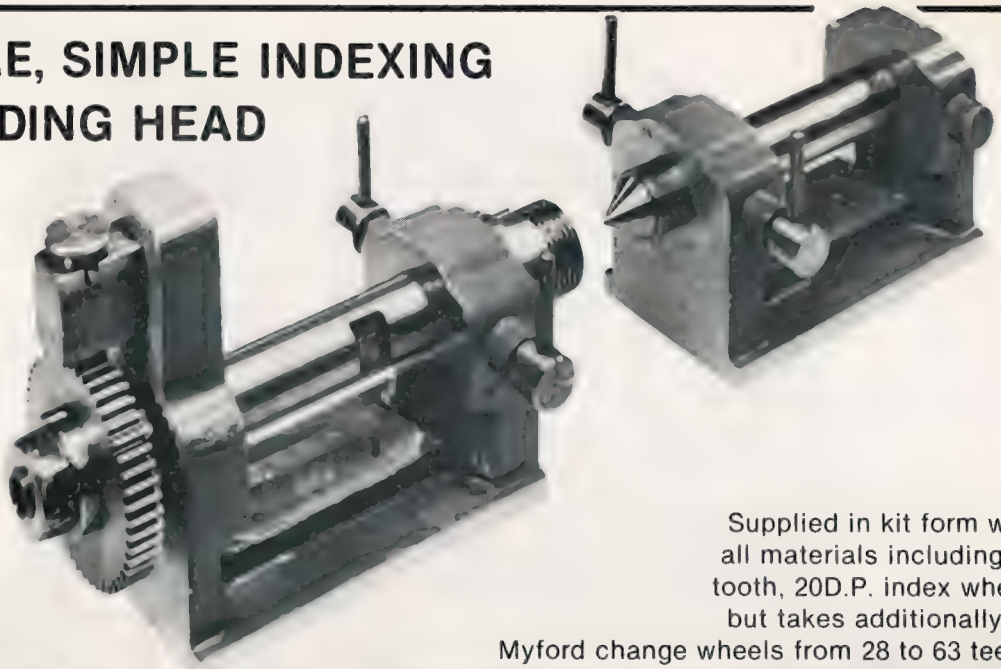

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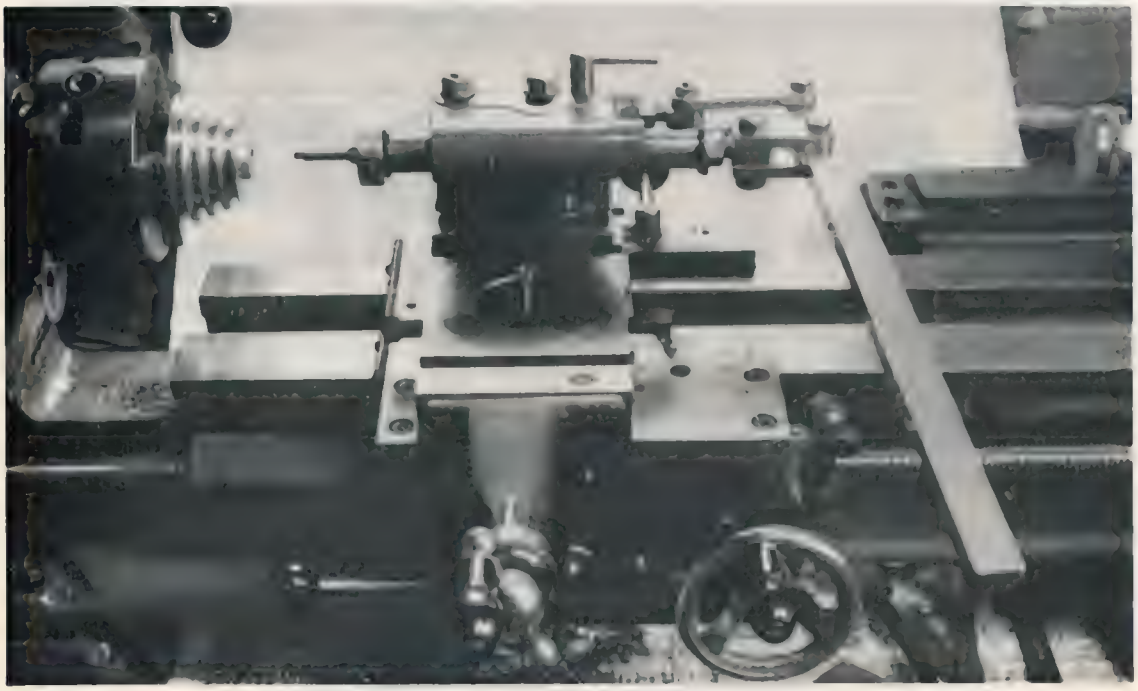

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CATS

CATS were the subject of the 1978 International carving competition organised by Woodworker. Lions, tigers, panthers, leopards, tabby cats, Persian cats, Siamese cats, happy cats, sad cats, contented cats, angry cats, all were acceptable, finished to the entrant's choice but *NOT* painted. As in last year's competition

Figure Carving

No.	Title	Entrant	Town
F1	*Cat*	Willard Bondhus	*Bloomington, Minn., USA*
F2	*Cat in unknown Indian hardwood salvaged timber*	Richard Noble	*Tewkesbury*
F3	*Puss in boot*	A. Lloyd	*Wrexham*
F4	*Lion*	Terry E. Moss	*Charfield*
F5	*Jungle cat*	Wm. Broadhurst	*Stewarton*
F6	*Leopard*	R. N. Smith	*Otterburn*
F7	*Bobcat*	R. N. Smith	*Otterburn*
F8	*Lion*	R. N. Smith	*Otterburn*
F9	*Cat*	R. G. Bentley	*Tadworth*
F10	*Cat and kittens*	Trefor Thomas	*Blaenffos*
F11	*Cat*	R. L. Smith	*Allestree*
F12	*Lion and crown*	J. B. Watkinson	*Chesterfield*
F13	*Tiger in cherry with mahogany stripes*	P. F. J. Chillingworth	*Dereham*
F14	*Climbing cat*	Alan Duncan	*Rothwell*
F15	*Bobcat*	N. Lamb	*Oxford*
F16	*Kirsty*	Eric Green	*London*
F17	*Siamese stalking*	Charles Hilken	*Dudley*
F18	*Cat*	P. R. Griffiths	*Gillingham*
F19	*Lion*	John Reside	*Newtownards*
F20	*Lioness and kill*	D. J. D. Ashton	*Peterhead*
F21	*Cat up tree*	F. Dickinson	*Wigan*
F22	*Puma in maple*	C. K. Bramwell	*London*
F23	*Cat*	Mrs. L. R. Spillman	*Spronston*
F24	*Carved tiger in lime*	K. Langham	*Bulwell*
F25	*Large cat*	Brian Ackrill	*Skelmanthorpe*
F26	*Crouching cat*	Miss N. Neel	*Maidstone*
F27	*Cat in plane*	Ken Shaw	*Kingskerswell*
F28	*Kitten*	R. L. Smith	*Allestree*
F29	*Cat and fiddle*	R. Hoad	*Crawley*
F30	*Egyptian cat*	Mrs. R. Hoad	*Crawley*
F31	*Sleeping cat*	W. G. Mackie	*London*
F32	*Cat rampant*	Mrs. E. C. McGuire	*East Malling*
F33	*Cat*	J. L. Nettleship	*Sheffield*

1978 WOODWORKER INTERNATIONAL WOODCARVING COMPETITION FOR THE ASHLEY ILES AWARDS

(Gnome on a Toadstool) there were two sections, figure and relief carving. This year due to demand a third section was open for schools' entries. Entry was open to both professionals and amateurs and this year's competition has brought in a total of 49 entries.

Relief Carving

No.	Title	Entrant	Town
R1	*Shaded cameo Persian*	R. L. Smith	*Allestree*
R2	*Tiger*	T. Wells	*Cleveland*
R3	*Cat at the window*	Trefor Thomas	*Blaenffos*
R4	*Through the looking glass*	C. F. Fisher	*Abergavenny*
R5	*Cat and bird*	B. L. van Zadelhoff	*S. Africa*
R6	*Cat*	Barry C. Hills	*Chelmsford*
R7	*Lion plaque*	A. Collis	*Basildon*
R8	*Kitten in a basket*	Ron Morgans	*Kidwelly*
R9	*Lion plaque*	E. L. Vince	*Aylesbury*
R10	*Cat on Fence*	Mrs. L. Spillman	*Spronston*
R11	*Cat and kitten*	A. Lloyd	*Wrexham*
R12	*Cat on post*	Mrs. E. C. McGuire	*East Malling*

Schools and Colleges

(Figure, 11-15 years)

No.	Title	Entrant	Town
3A1	*Cat*	Alastair McGregor	*Huntingdon*

Relief, 11-15 years

No.	Title	Entrant	Town
3B1	*Lion plaque*	Ian J. Kibble	*Bulwell*

Figure, 16-19 years

No.	Title	Entrant	Town
3C1	*Lion*	Allen Necchi	*Cannock*
3C2	*Cheetah*	Paul Gosling	*Colchester*

How To Get To Wembley

To help you get to and from the Exhibition, British Rail have specially augmented their services from Marylebone station, London, to serve the Wembley Complex Station. This station is no more than two or three minutes' walk from the Exhibition itself and is thus a very convenient way of reaching Wembley from central London. Journey time from Marylebone to Wembley Complex is ten minutes non-stop. These trains are the regular services making an extra stop, rather than specials between the two stations. Combined fare/entrance tickets are available.

Weekdays

From Marylebone		From Wembley Complex	
08.25	14.25	11.21	17.24
08.55	14.55	12.06	17.52
09.35	15.25	13.06	18.16
10.25	15.55	14.06	18.36
11.25	16.30	15.06	19.01
12.25	17.15	16.08	19.19
13.25		16.38	19.47

Saturdays only

From Marylebone		From Wembley Complex	
08.25	13.25	11.21	16.06
09.25	14.25	12.06	17.24
10.25	15.25	13.06	18.26
11.25	16.25	14.06	19.26
12.25	17.15	15.06	

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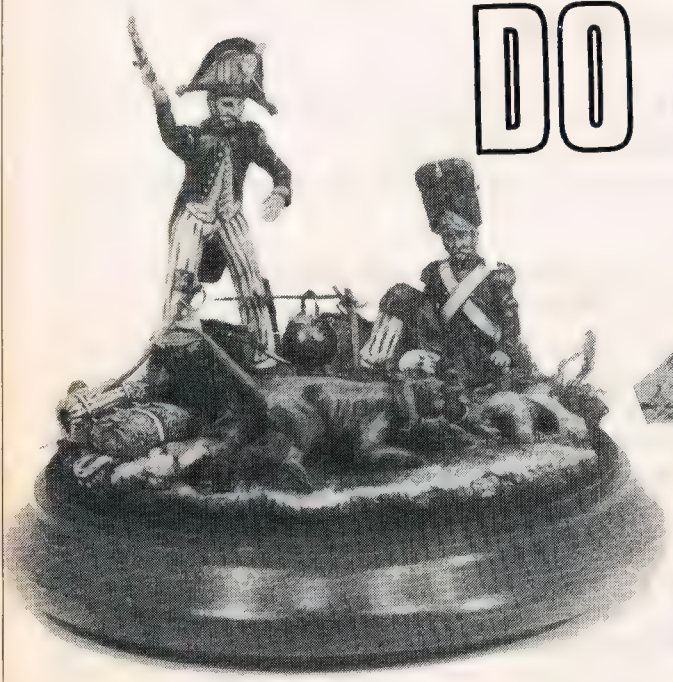


British military modellers have been doing increasingly well in overseas events recently; have a close look at some of the entries in this year's ME Exhibition — they may be the international competition winners of the future!

1978 WAS A vintage year for British modellers and a brief look at just how well some of them did in international competitions serves also to illustrate pretty graphically how rapidly the hobby has come of age over the past 18 months or so.

The story really centres around what has become *the* major annual event, the International Historex Competition with its London eliminating round and grand finals in France; at the end of 1977 these took place at the French "Do it Yourself" exhibition, the Salon du Bricolage in Paris, but the next Historex International will stage its final round at Fontainebleau over Easter, 1979. It will be difficult to site any other single recent development in the military modelling hobby that has done more good than the setting-up and operation of this exciting series of events, and Lynn Sangster of Historex Agents and the staff of Historex France are all to be congratulated on the efficient way in which they have provided the hobby with something it has needed for a long time.

The story really starts in January 1977 which saw the finals of the first ever meeting whose eliminator had taken place in October of the previous year; that event provided a foretaste of things to come and proved to be something of a whitewash from the British aspect with outright wins in three of the four classes and numerous placings — the Single Figure class, in fact, was a British benefit being won by Graham Bickerton with his magnificent Chasseur a Cheval officer whilst other U.K. modellers Graham Brown, Tim Simmons, Jim Booth, Max Longhurst and Mike Jewell accounted for places 2-6!

Well-known modellers David Catley and Mike Thomas came 3rd and 4th respectively in the Small Groups class that year while J. Todd won the Vignettes competition with his splendid "21st Lancer, Sudan, 1898" model and Edward Pollard placed 2nd with Max Longhurst 3rd and David Catley 5th.

After such a home trouncing it would have been natural to predict more concentrated efforts by French modellers for the 1978 round and such was the case; the result of the British successes in 1977 was to make the competition all the more furious; the French determined to put on a better showing, the British determined to consolidate and improve upon their previous successes. The result was an overall field of outstanding entries of quite staggering quality. In the outcome the French won the Scenes and Groups category (and in quite an unusual way, the winner being of the fair sex, Mlle. Peschard, whose group of Seven Years War figures reflected an enormous amount of detailed conversion work), the Dioramas, and a Junior class which was won by well-known French

Page opposite: "Le Voleur" by Max Longhurst, a particularly successful Historex International Competition entry. Likewise J. Todd's "21st Lancer, Sudan 1898" which won the Vignettes competition in 1977.

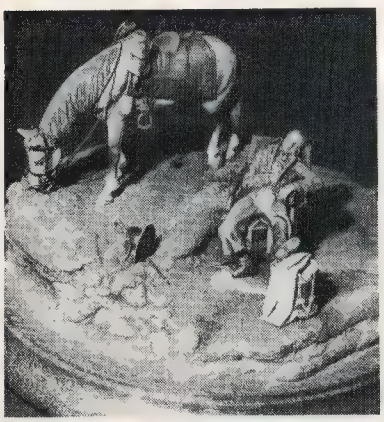
modeller Pierre Conrad's son, Cyrille, for his "Le Coup de l'etrier" Napoleonic group; British modellers triumphed yet again with outright wins in the Vignettes, Single Figure and Conversion categories with, again, many successes amongst the placings. Alan Haselup with his magnificent "The Emperor sleeps, dreams and schemes" snatched the Single Figure trophy from British modeller Mike Thomas while the rest of the positions down to 8th place also went to U.K. competitors.

The story was almost repeated in the Conversions competition in which David Catley (well-known for his realistic, "atmospheric" dioramas and set-pieces) took 1st, 2nd and 6th places and Mike Jewell 8th, and Ed Pollard, Cesare Milani, Nick Infield all took prizes in the Vignettes class which was also won by a British modeller, Graham Bickerton, with his masterly Waterloo vignette "A Near Run Thing". No fewer than four British builders placed among the top eight in the Scenes and Groups category while in the Junior classes young up-and-coming Alan Arbury took 2nd and 5th and John Hullis 3rd places. Well done indeed!

As the thoughts of Historex International competitors now swing to Fontainebleau in 1979 and, no doubt, many repeat performances of past successes, news that this year's event will attract transatlantic entries filters in and will add further spice to proceedings! It's certain proof of the prestige which this annual event enjoys and it will be fascinating to see how well we British fare against some of the top American masters.

Meanwhile, recently in Canada at the 1978 annual competition of the Ontario Model Soldier Society, British modellers again took no less than eight 1st prizes and two runners-up awards — which seems to prove that we can out-perform many of our transatlantic colleagues too! The successful Britons were Peter Wilcox, Alan Haselup, Jim Booth and Alan Edwards, and Peter Wilcox's magnificent "Indo-European" ancient mounted figure not only won its class but was judged Best of Show and returned home accompanied by a plethora of trophies.

And this is just the beginning. We have no doubt that participation in international competitions of this kind will grow in the months and years ahead, which is one of the most exciting developments there's been within the competitive hobby. Take a close look at the winning models in the military categories at this exhibition; you may be looking at an international award winner of the future by one of the members of a rapidly growing top echelon of talented military modellers. Didn't they do well!



Left: "The Emperor sleeps, dreams and schemes", winner of the Single Figure Trophy in 1977's Historex International by Alan Haselup. Right: Peter Wilcox's enormously successful "Indo-European" ancient figure which scooped Best of Show award (and a lot of other trophies) in Ontario in 1978.

Bottom left: "A Near Run Thing — Waterloo 1815" won the vignettes class in Paris, 1977, for well-known British modeller Graham Bickerton. Bottom right: "Scotland forever, the Gordons and Scots Greys at Waterloo" by Mike Thomas, a spirited rendering of the occasion when the Greys charged through the ranks of the Gordons; it was placed 5th in the scenes or groups category in the 1977 event.

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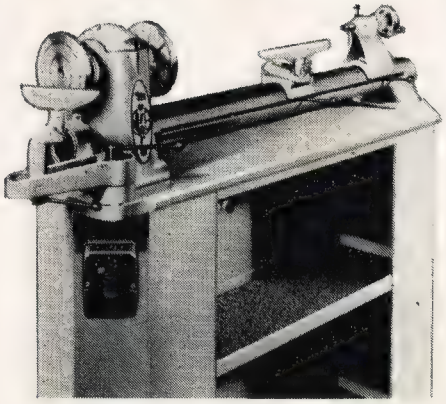

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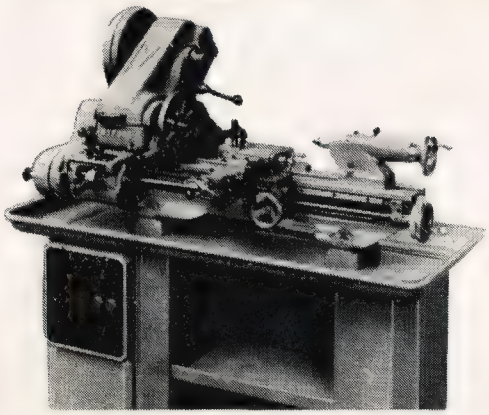

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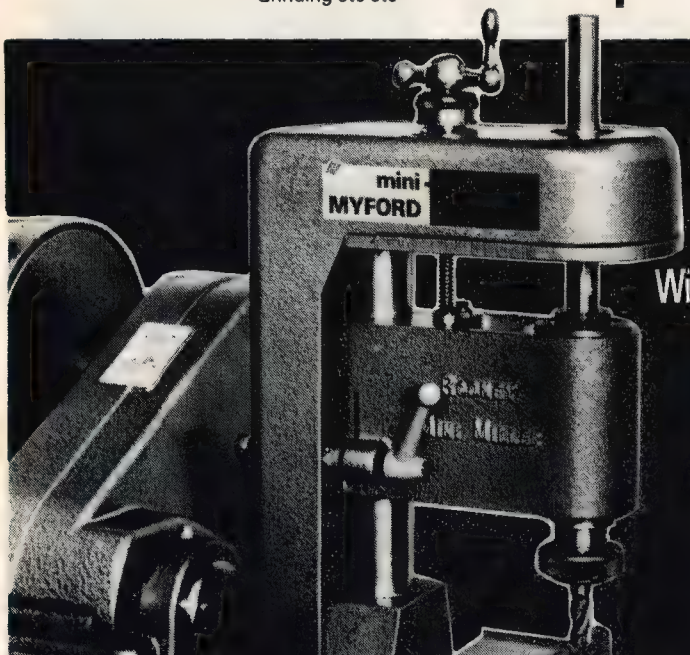

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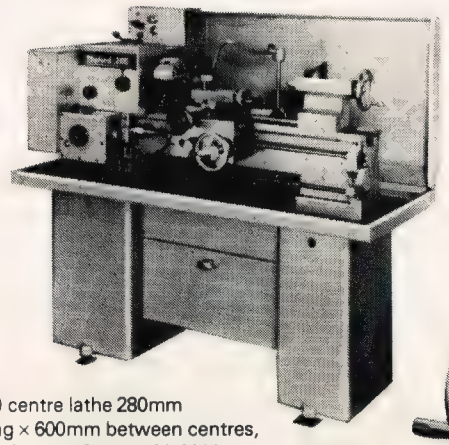

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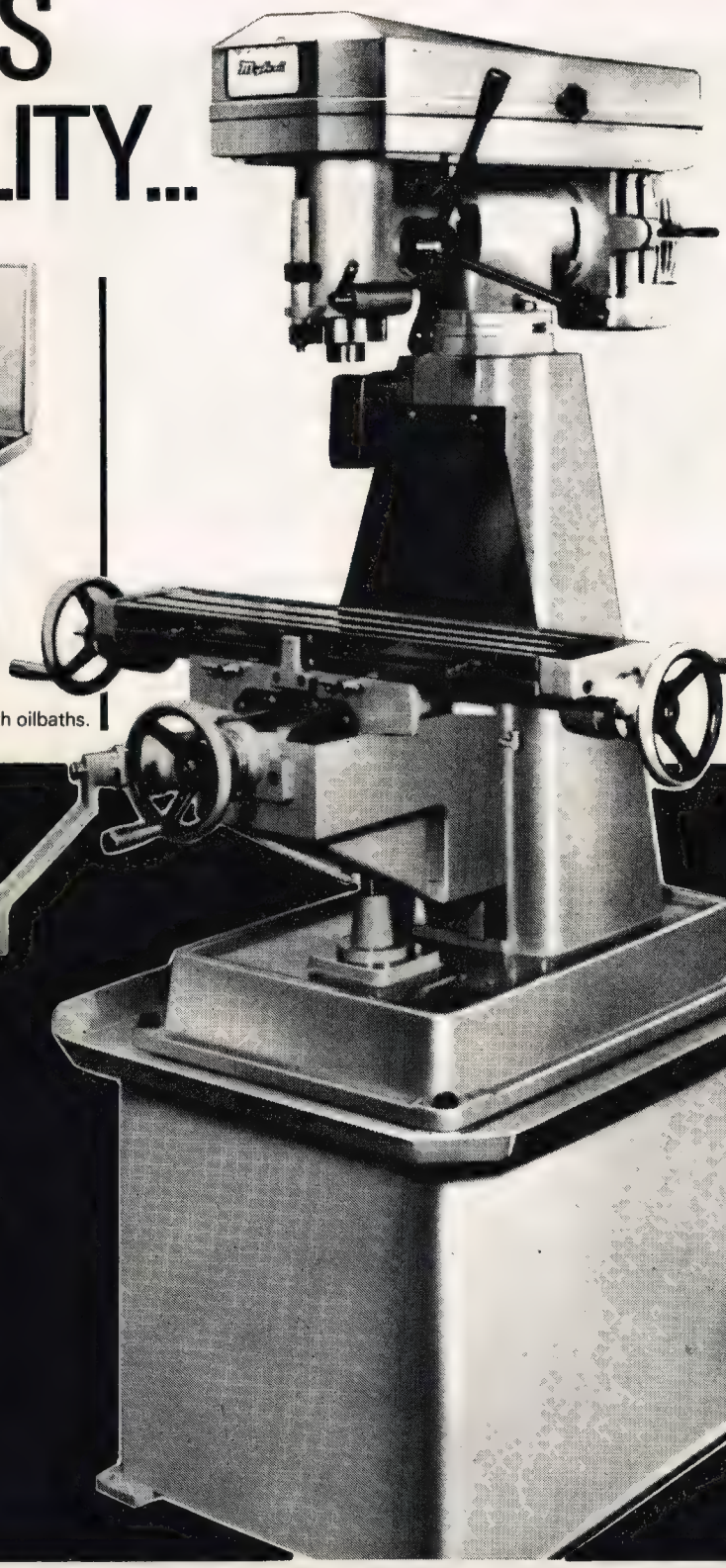

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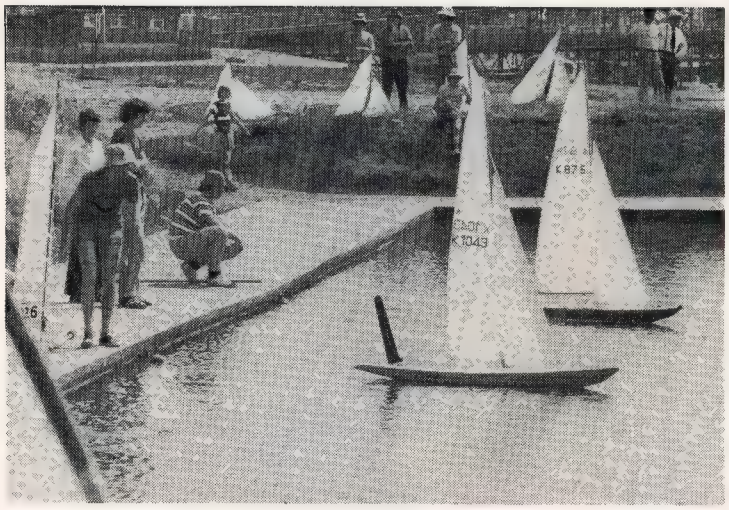
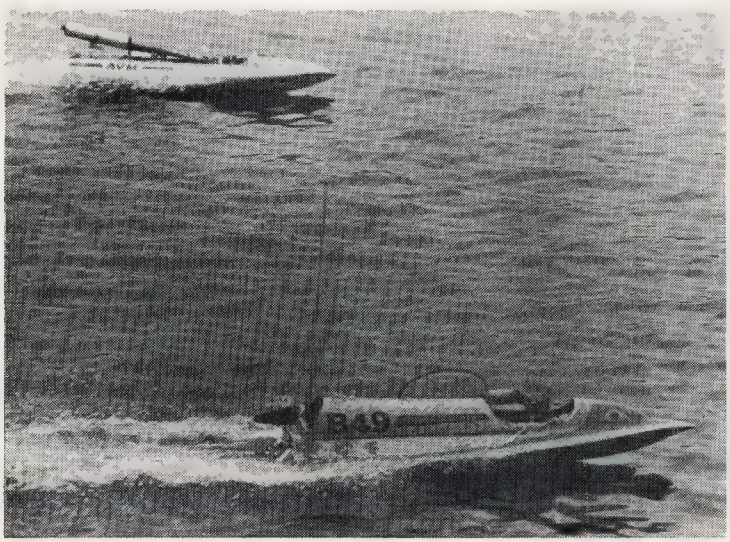


Four aspects of the fascinating variety of model activities possible in model boating are pictured. Left: The peaceful yet demanding free sailing yachts are controlled by the vane at rear of model. Below: High speed engine powered models during a race.

SINCE THE DAYS that the Vikings invaded our shores, and convinced us of the importance of sea-power, this country has been one of the leading maritime forces in the world. It is only natural, therefore, that boat and ship modelling should have been and is a popular pastime. We were the first to form National Associations for the hobby, as far back as 1926 for the M.P.B.A. *(Model Power Boat Association).* What is perhaps more surprising to the lay public is the ever increasing popularity of the hobby at this present time, especially in view of the arch-enemy of participatory pastimes — television. The most important factors contributing to this upsurge are most probably the extra leisure hours available to people and the easy availability of trouble-free radio control equipment which gives limitless realistic operational facilities to models.

The subject of model boating is so vast that volumes would be required to explain things in detail, but it is the hope of this short article to at least provide a brief insight and hopefully encourage others into a rewarding and fascinating hobby.

There are so many aspects of model boating that most modellers will find one that suits their ability, and what is more important, costs can be kept down. The average model boat is relatively cheap to build and has a long life when compared to other forms of modelling, for example, model planes.



Like all things, model boats can be fitted into various categories and two basic ones are 'working' models or those that go, and 'non-working' or display models. There is a lot of scope in both categories, but 'working' models are the ones with most general appeal.

In this latter category, they can be completely realistic — i.e., working *scale* models, or designed primarily with performance in mind. However, in the second form they can still look realistic without being a true copy of any full-size prototype (called semi-scale), or be designed as a specific 'functional' model.

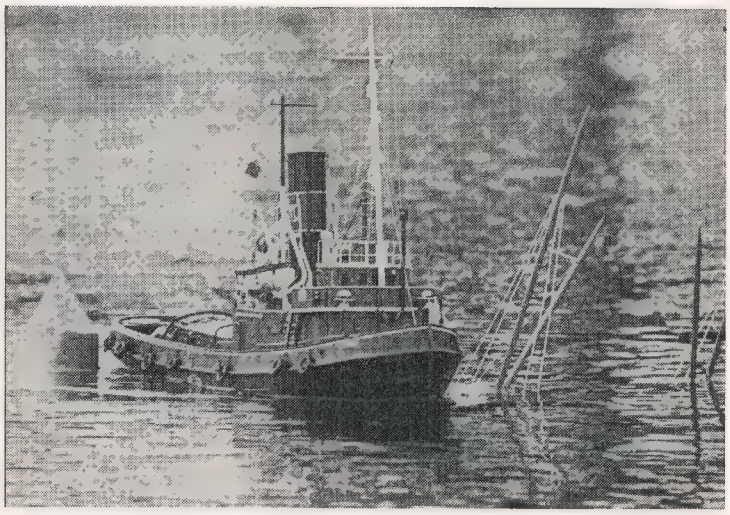
To take functional models first, these are obviously split into power and sail, as are the two organisations which control the competitive part of the sport, namely the MPBA and the MYA *(Model Yachting Association).*

The power models are classified into three broad divisions, tethered hydroplanes, where as the name implies, a very specialist model hurtles around a fixed pole on the end of a length of steel wire and reaches speeds well in excess of 100 m.p.h.; straight or free-runners, where models cover set distances in nominated times or are aimed at marker buoys at the far end of the lake — obviously one disadvantage of this type of competition is the need for access all around the lake; and thirdly, radio-control. This third classification is further sub-divided into events for speed, for steering ability and the most popular at present, racing against other models, usually around an 'M' shaped

A brief introduction to a fascinating hobby

Described by John Cundell

Right: A Thames tug negotiates between a buoy and a simulated shipwreck hazard during a scale boat regatta and below, an example of period ship modelling, a "dockyard" model which displays the internal framework, intended originally to teach apprentices basic shipbuilding.



course for periods of 15 minutes up to 2 hours. Up to 13 models can be raced at one and the same time under radio-control. Within the last three classifications mentioned, power is provided by internal combustion engines, ranging in size from 1 cc. to 35 cc., the popular categories being 3½ cc., 6½ cc. and 15 cc. The glow-motor, which uses methanol as fuel, is the most widespread power unit, and is fired by a small wire element in the cylinder head, initially lit by a battery, and kept running by the heat of the combustion.

Something of a revolution has taken place over the last few years with electric propulsion, which has for many years been the predominant source of power for scale ships. An electric motor is much easier for a beginner, although many run into problems when considering power supplies. Dry batteries are very short-lived and lead acid too heavy for fast power models. The advent of fast-change (5-10 amps) nickel cadmium cells has changed all this, however, and electric-powered functional competition models are nearly as fast as the engine-powered rivals, with the added advantages of no mess and noise.

These are also the main advantages of sailing models, and operation is practically cost-free. Yachting has also been dogged in the past by the necessity of complete access being required all around the lake, and again, radio-control now gives the skipper the ability to not only return the yacht to the point of origin, but to tack and sail as per a full-size vessel, controlling the sails and rudder. There are a number of recognised classes; however the Marblehead, at 50 in., is the most popular. Radio yachts are most frequently raced on a triangular course with about 60-yard legs, requiring sailing with and against the wind.

Scale models, in which interest has been rapidly growing over the last few years, can be built to represent practically any form of vessel, provided care is taken in matching the type of prototype to the type of power plant envisaged. Electric power predominates, although there is much current interest in steam power.

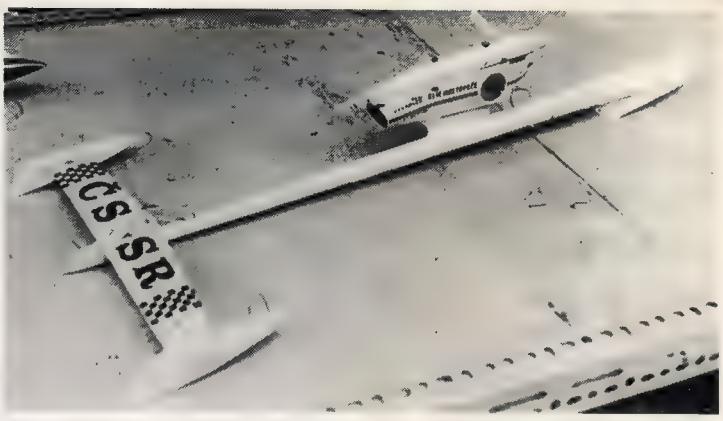
Many kits are available and these can be a good way of introducing beginners to scale modelling. Plans specially drawn are also available from a number of sources, or the really dedicated enthusiast will carry out his own researches, draw the plans and build the model completely from raw materials, known as 'scratch' building. Competitions are held where the models are judged 'statically' for fidelity to scale, quality of finish, etc. Most popular events, however, are known as 'stand-off' scale, where the model is judged at a distance; hence the name stand-off, for realism, trim, etc. Also, the model skippers are expected to steer their vessels through a course which is usually laid out to represent natural navigational hazards such as wrecks, lighthouses, etc., and to bring the vessel into a harbour and dock it. All this must be accomplished without hitting the buoys or hazards and points are gained or lost accordingly.

Much scope exists for the development of scale sailing models, i.e., square riggers, schooners,

etc., as these tend to be difficult subjects to model operationally as they are submitted to full scale natural forces, wind and wave, and are themselves, of course, at a very small comparative size.

How much does it cost? The usual question asked by the spectator. Well, kit prices for a trawler, fishing boat, for example, range around £20 to £40; a small cruiser kit (20 in. long) can be obtained for £10; at the other extreme the fireboats or oil support ships with operational fire monitors, cranes, winches, etc., will amount to £100. On the other hand, if you buy a plan and build from raw materials, basic costs can be kept below £20. A small electric motor for a scale model retails at up to £10 — a racing competition glow engine can cost over £80. But whatever the initial outlay, the return is considerable. Not only do you end up with a model worth a financial sum but there is the personal satisfaction of having created something — who can put a price on that?

Questions about radio by beginners are fairly standard. What is the range? Well, usually about 1½ miles, but a model can only be controlled when it can be seen and 250 yards is about the maximum. Almost all boats use two-function radio which gives proportional (the movement of the control stick on the transmitter gives a corresponding relative movement of the servo mechanism in the model) control for rudder and engine speed. Additional functions, up to six, can be incorporated for boats requiring extra facilities, i.e., working a fire hose, lowering the anchor, switching on lights, etc. Up to thirteen models can be operated at the same time and modellers generally fly a coloured flag to show which frequency their gear is aligned to. Obviously to avoid interfering with one another's models, all flag colours must be different whilst sailing. Frequencies can be simply changed by the use of plug-in crystals in the transmitter and receiver. The licensed waveband (the licence costs £2.40 for five years) in the U.K. is 26.98 to 27.28 megaherz. A two-function set can be purchased for as little as £60 and will give many years' reliable service.



Many individuals have realised that much more pleasure can be gained by joining a club, and mixing and learning with others having similar interests. The boating associations, mentioned earlier, will both be very pleased to provide information about your nearest club.

Enthusiasts are also kept up-to-date by monthly magazines such as *Model Boats* and *Model Shipwright* in this country. The former covers all aspects of model boating, the latter specialises in top scale and static ship modelling. The hobby is world-wide and a World Federation exists which organises Championships at regular intervals. Enthusiasts now travel from the other side of the world, Australia, Brazil, U.S.A., etc., to enjoy meeting and competing with fellow modellers.

An enormous amount of pleasure and satisfaction can be gained from modelling and model boating in particular. Surely that's what life is all about. Don't delay. Join today!

Top: The fastest model boats, tethered hydroplanes, reach speeds up to 130 m.p.h. Left: Earl Mountbatten of Burma demonstrates a model of a torpedo recovery grab designed by him.

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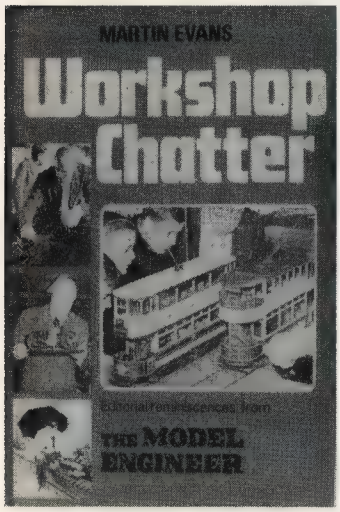

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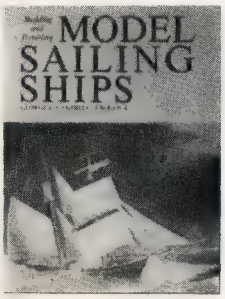

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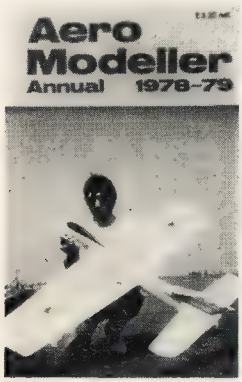

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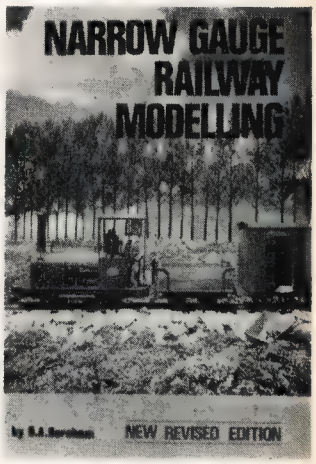

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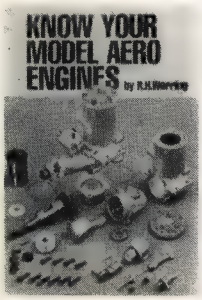

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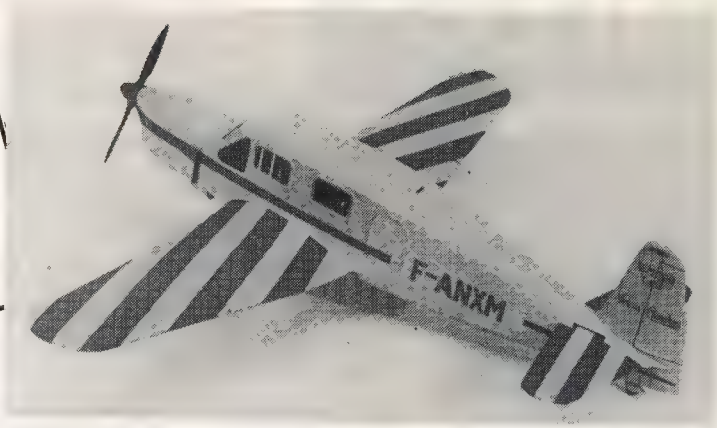
THE SPECIALIZATION SYNDROME

by Ray Rimell

Editor of SCALE MODELS



THE LAST FEW years have seen subtle new trends in the ever changing world of plastic model kits. A change which at present is restricted to just a few manufacturers, those with imagination and the courage to break away from more traditional money spinners. Maybe this is indicative that at last the voice of the enthusiast is being heeded and the financially welcome comfort of ready sales eschewed as a result. One manufacturer that stands out as a progenitor of this surprising new stance is the French firm of **Heller,** never slow to experiment. What other manufacturer would produce such unique delights as the Dewoitine 510, Caudron Renault C535, Stampe biplane and promise even more interwar civil and military aircraft types in 1979? Even so, Spitfires, Tiger Tanks and *Bismarcks* will continue to appear and among British manufacturers only **"Matchbox"** at present are planning more original projects. Consider the big scale Lysander and Douglas Dauntless, 1/700th scale US cruisers and destroyers and other subjects in hand which promise to surprise even the most hardened of model enthusiasts.

In Japan, **Hasegawa** has impressed with their promised and released choice of aircraft prototypes: Cougars, Panthers, two-seater Skyhawks and the long-awaited 1/32nd Fiesler Storch — what a foil for the Lysander! And thanks to **Novo,** even the old **Frog** *Trailblazer* series of one-offs are enjoying a new, albeit brief, lease of life. Rareties such as the DH 88 Comet, Bleriot X1, Gypsy Moth, Westland Wallace, Spirit of St. Louis — sheer nostalgia. Good kits too, considering they initially appeared in the early 'sixties. But no R101 airship? Surely that is slated for re-release very soon — a most underrated kit if ever there was one.

Perhaps **Airfix** too recognise the trend, for despite re-release of popular subjects, consider the many potentially good sellers they are to withdraw for 1979, Canberra, Do 17, Sopwith Pup, and others — grab them while stocks last . . . It seems saturation point has been reached at last and manufacturers are slowly realising the fact. Current 1/48th scale trends reflect this by retreading the top selling subjects but to a different scale. When those ranges reach a natural climax, perhaps someone will start another scale, 1/75th or 1/50th perhaps? Only time will tell.

Aircraft modellers' desire for the more esoteric and off-beat subject is responsible for the rapidly expanding ranks of vac-form manufacturers. The range now available is extensive although much of it is to a poor standard, but now there is a 'new' process to consider — limited production injection-moulded kits. Only recently have such models become available, thanks to a new company **Veeday,** the brainchild of one Miss P. Day. First subject, complete with decals and three-view drawings, is the DH Rapide, an aircraft long overdue for attention by the modeller. (Who remembers the old **Frog** kit to 1/87th scale?) Production run is

Above: The Caudron C915 from French Heller. Left top: The DH 60G Moth, once Frog, now Novo.
Below left: Pitts S2a Special, the first real metal aircraft Kit—from LDM.

Heller's excellent Bucker Jungmeister spans barely 4 inches!

limited to 1,000, the maximum figure before the moulds break up, and MiG 15 is next and even WW1 subjects are being considered for future attention — we wish them well.

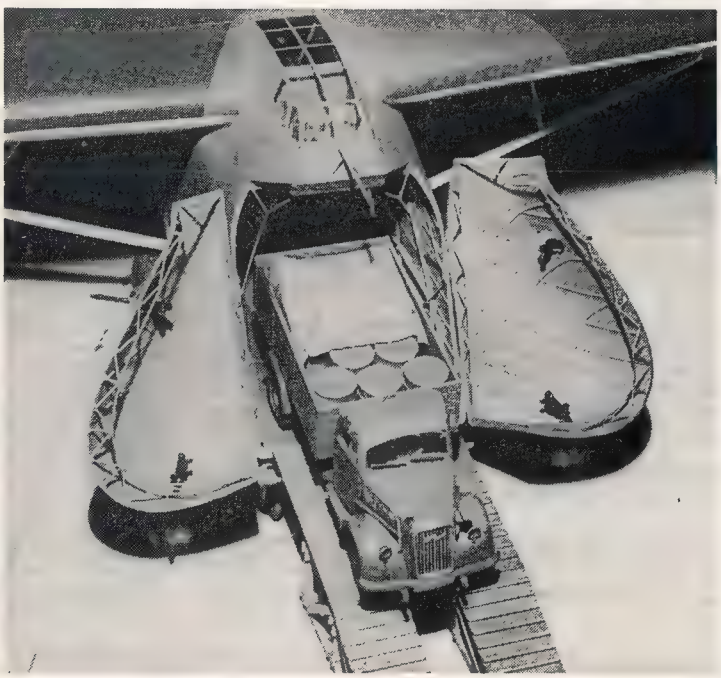
Another kit manufacturer who has not been slow to pander to the enthusiasts is **Revell/Italaerei** whose range of unusual WW2 German and Allied aircraft subjects is now well known. Heinkel He111, Me 321 and 323, Dornier Do 24 and rare Italian bombers — NOT types likely to be duplicated by other manufacturers, and what fine products they are too. The big six-motor Gigant even captured an 'Aircraft kit of the Year' award at the 1978 Nurnburg Toy Fair. Anyone building this superb model can easily see why.

But as far as specialisation of types is concerned what about 'new' materials? Who would have ever thought we would see the advent of *metal* aircraft kits? If you have, you've been beaten to it by **Lawrence Design and Models** with their 1/48th Pitts Special biplane and Cierva Autogiro. You couldn't pick more unusual subjects and even if used to plastics, give these a try. With superb casting, they are easy to assemble and heavy to lift. Other rare and fascinating types are promised by this enterprising company including the dumpy little Comper Swift, an appealing monoplane of the 'thirties. No warplanes seem to be scheduled as yet and this is to be applauded, for consider the many attractive civil types which never even get to the planning stage. Puss Moth, DH Dragon, and even the more recent Viscount has yet to appear in injection moulded ranges.

The two large scale liners by **Entex,** *Lusitania* and *Titanic,* have been enormously popular and break with tradition in sophisticated treatment of moulding detail and choice of subject. Other famous Atlantic Queens are in the pipeline and promise to be equally well received.

We can only hope the path laid down by Heller can be followed by the more cautious manufacturers. It would be wonderful indeed if amongst all the Spitfires and Messerschmitts undoubtedly scheduled for 1979 and 1980 release, a few Fairey Albacores, Bristol Beauforts, or even a World War One type or two are included. Nevertheless precedents have been set, and it seems eventually that the enthusiasts in the plastic modelling world, in the minority as always, are nonetheless beginning to get their own way. Let's hope they support the new trend with their wallets.

Right: The Cierva Autogyro, another LDM metal model — certainly unique. Below: Revell-Italaerei's massive 1/72nd scale Me 321 with appropriate load.



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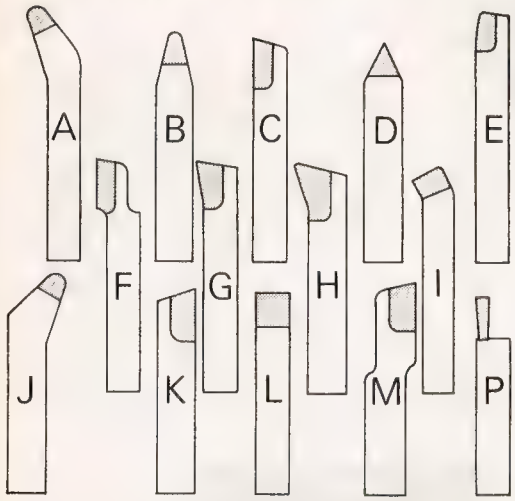

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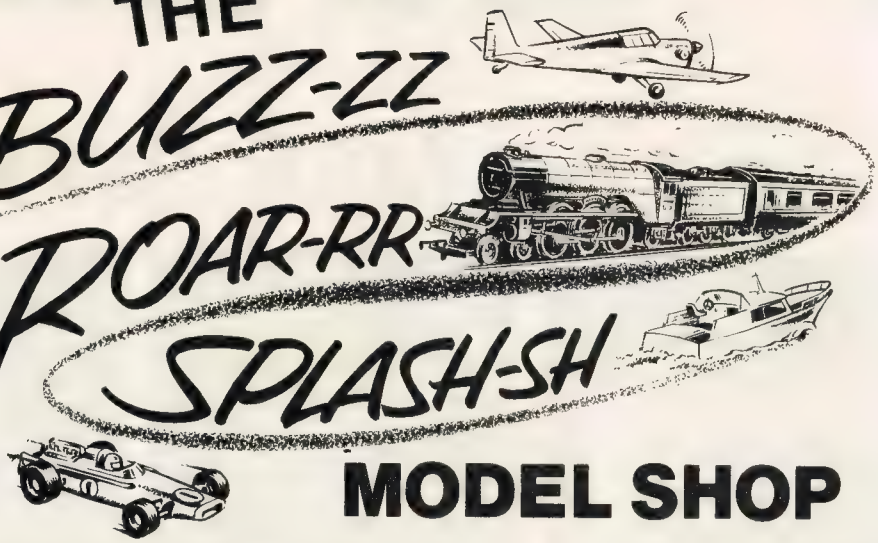

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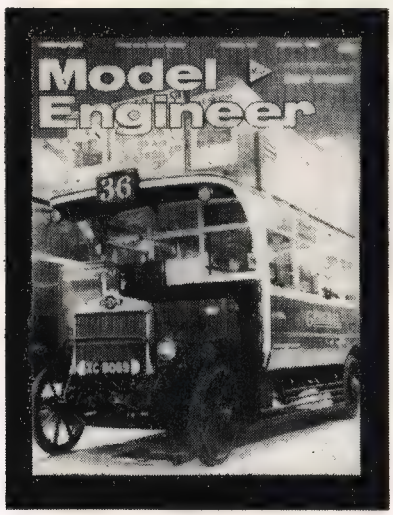

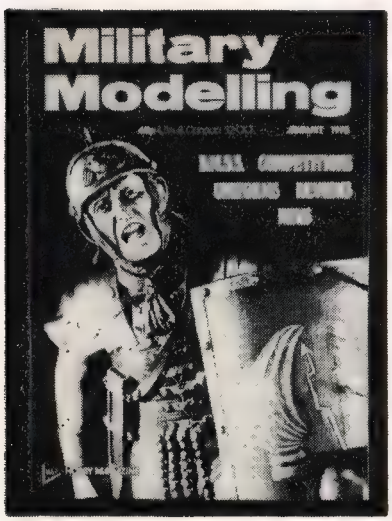

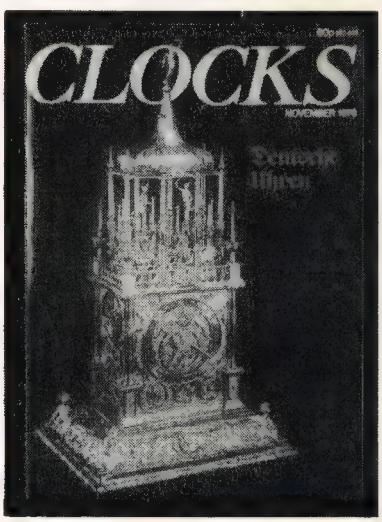

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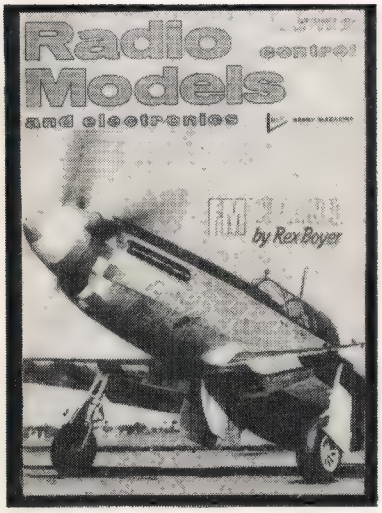

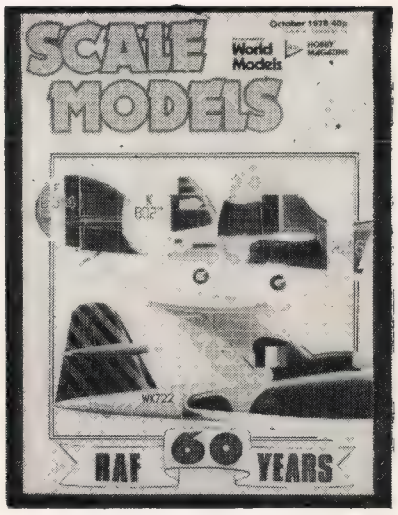

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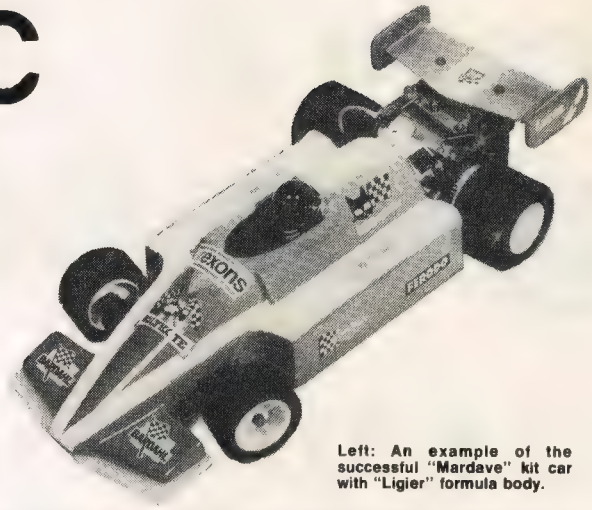


Left: An example of the successful "Mardave" kit car with "Ligier" formula body.

YOU DON'T HAVE TO SPEND A FORTUNE TO WIN IN 1/12 SCALE ELECTRIC RACING SAYS BILL BURKINSHAW

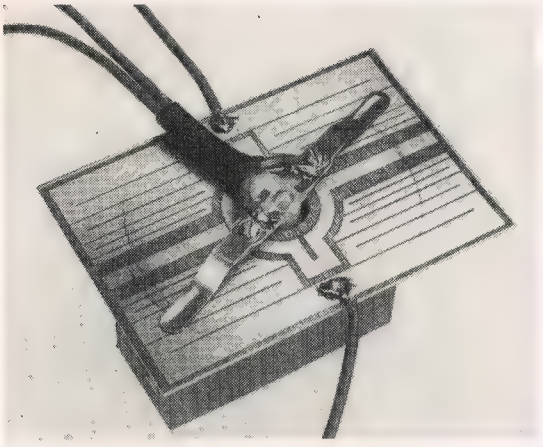
RACING SCALE model cars by remote control is arguably the fastest growing aspect of R/C modelling. Psychologically, the concept was a winner right from the outset, for what car enthusiast in his heart of hearts can honestly say that he neither envies, nor doesn't feel that he could emulate the performances of the world championship contenders on the Grand Prix circuits of the world? When placed in charge of a car, the human animal becomes transformed and so often the worst characteristics come to the fore. Given that most of us have neither the resources nor courage to place ourselves in the real situation, what better way could there be, though, to demonstrate our skill and ability than with a Radio Controlled replica.

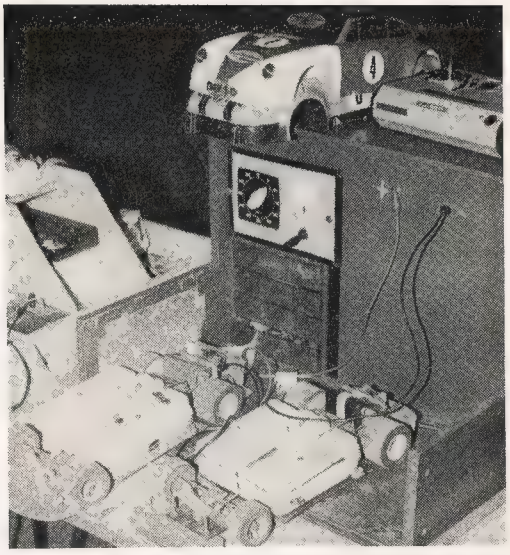
The initial investment can be as low as £100 for a complete racing outfit of car, R/C system and charging battery, or considerably more if more sophisticated R/C equipment, etc. is purchased. Nor is it necessary to purchase the most expensive cars or control systems to win races as evidenced by the recent successes of standard low-cost kit cars in open National meetings. Simplicity is the essence of 1/12 scale electric cars; these miniature racers are powered by relatively low-priced electric motors driven by quickly rechargeable Nickel-Cadmium batteries. Simple light-alloy plate chassis are very popular and the axles are generally mounted on tough, simple, plastic moulded parts. Speed is controlled either by resistance or electronic devices (the latter comprising of up to 75% of the price of a complete car) which plug directly into the R/C system receiver.

Already, cars have started to develop along two quite separate paths. On the one hand there is the approach of total simplicity, the protagonists of this approach pointing out that in their models it is immediately obvious if there are faults anywhere in the system, whilst the other side argue that they have gone for the more technically elegant solutions with their plug-in speed controllers, etc. Neither approach can be dismissed out of hand, both systems work and on the racetrack where it matters most it has yet to be conclusively proven whether or not either approach is more consistently successful.

The operation of these models is

Below: Phil and Glenys Greeno with Ted Longshaw who drove 1/12 scale cars during the 1978 Model Engineer Exhibition.





Above left: A simple controller with wiper arms fixed directly to the R/C servo output arm. Above right: Two examples of the British made Lectricar being charged alongside their owners' impressive trackside spares box.

very simple. Charging of the drive batteries is accomplished by connection to a 12 volt car or motorcycle battery via a 1 ohm resistor. Twenty minutes charge is all that is necessary for up to 10 minutes of driving. Additional optional items would be a charging timer designed to cut-out the charging battery after a pre-set time and a heat sink for the charging resistor which becomes very hot whilst charging is in progress.

Having charged up the drive batteries, switch on and drive. Controls are very simple, either a stick or steering wheel on the transmitter for steering and a lever or stick for speed control. Side to side or twisting movement (dependent on transmitter type) for left and right control and up and down for throttle. The throttle control lever is spring loaded in neutral and depending on the type of speed controller fitted will either provide speed control in forward and reverse or forward and braking control.

Speed of these cars is quite astonishing and likely to catch out the inexperienced. With fully charged batteries instant application of full power is likely to cause a wheel spin with the car waltzing uncontrollably around the driving surface. More skill in the use of throttle and steering is soon acquired and before many charges have been exhausted the basic control of the car will have been mastered.

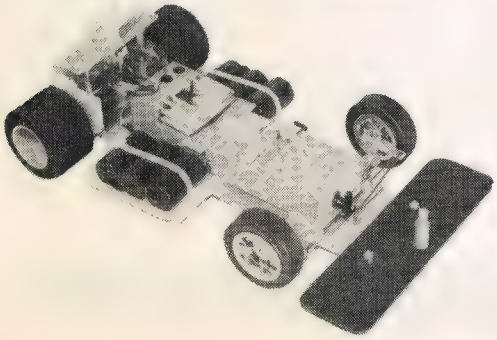
Most people who purchase a model racing car must have the intention to race even if on a very minor level, perhaps with a like-minded friend. Racing is what these little models were developed for, and until actual competition has been tried their full enjoyment potential cannot be realised. Many clubs are springing up all over the country where enthusiasts meet either in village halls, leisure centres or school gymnasiums and most model shops should be able to tell anyone interested of the whereabouts of a local group.

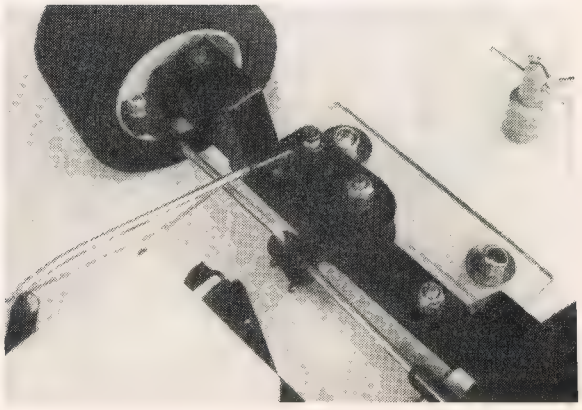
Vast areas are not essential, an unobstructed space of badminton court size is suitable, all floor surfaces are suitable providing that the tyres are treated to cope with ultra smooth floors. Silicon rubber is the favourite tyre treatment, usually of the type used to seal the gaps around sinks and baths. Both stippled and smooth applications work, but it will be necessary to find out the optimum coating for the surface chosen for driving on.

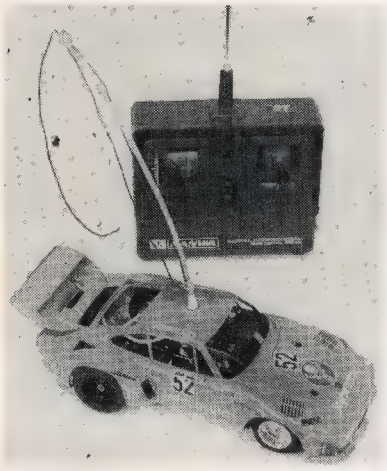
Track markers are usually old car tyres ideally split along the centre so that cars cannot become stuck underneath them. Most tyre distributors are quite happy to give away tyres that are unsuitable for re-moulding.

Try to make track layouts demanding enough to remain interesting, even after several ses-

Below left: The U.S. made MRP car incorporates an R/C "brick" of RX, steering servo and speed controller. Right: Steering mechanism of the average 1/12 racer is simple and direct.



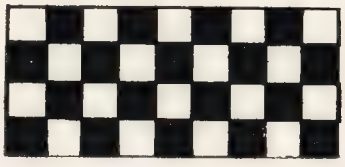


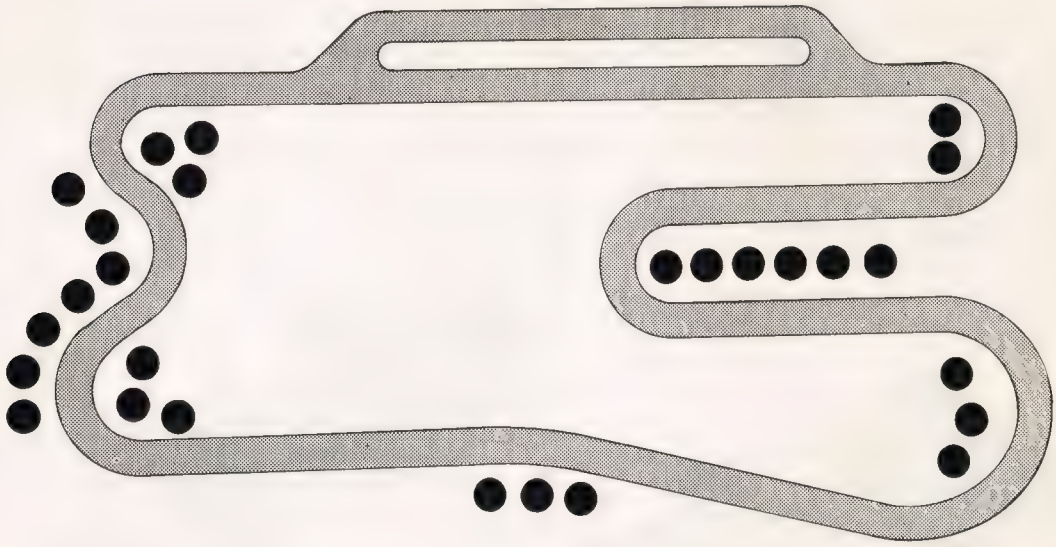


Left: A new and growing class is that for 1/20 scale cars, these high speed miniatures are fast and fun. Right: Plans for this 1/12 Lotus Europa and the Porsche (left) were both published in RCM&E of July 1978.

sions of driving. The temptation is to make the track too easy to drive around, then racing becomes little more than a gamble as to who's car has the most powerful motor, and motors do obviously vary one to another. Novice drivers will learn the skills required far more quickly if there is a demand made upon them, particularly to turn to both left and right during the race.

Demands on concentration are high, and whilst the initial demands of craft skill are elementary, once the car has been built and raced, there are always opportunities for modifying and improving the basic kit product. Above all the sport is a competitive one with good eyesight and quick reflexes paramount. However who is to say that the super-duper modified special will not prove invincible in the hands of its less able drivers?





Why not try a track layout similar to this one used for a 3 hour endurance race run at Blackpool earlier this year? Black discs indicate the position of the necessary track markers and of course — the "Pilots".

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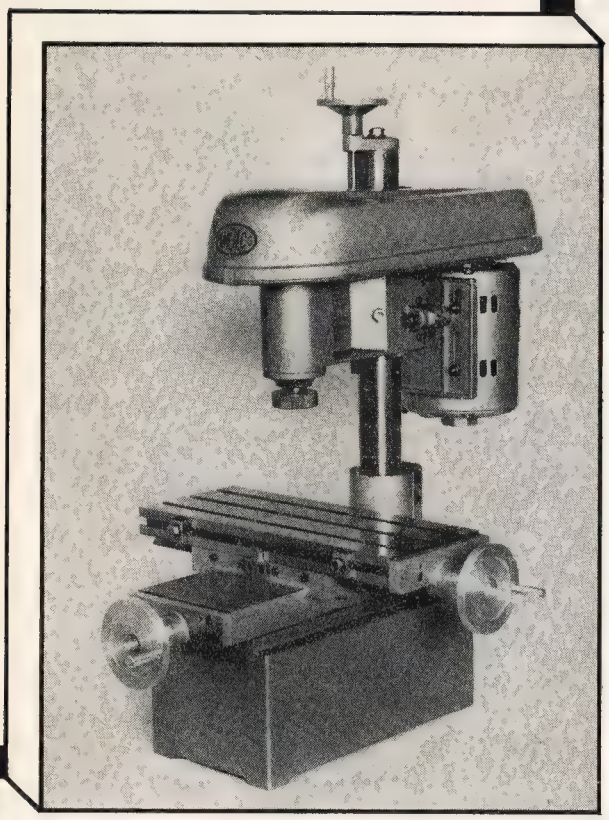

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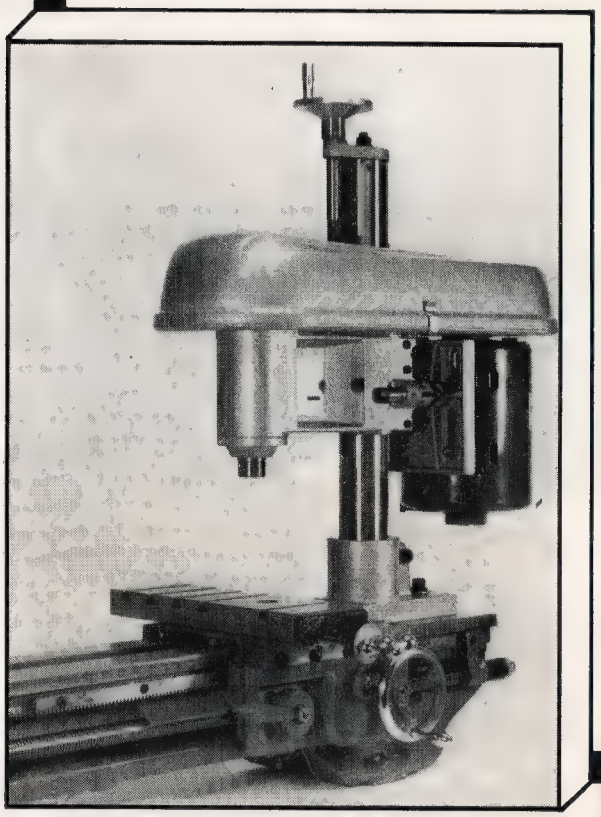

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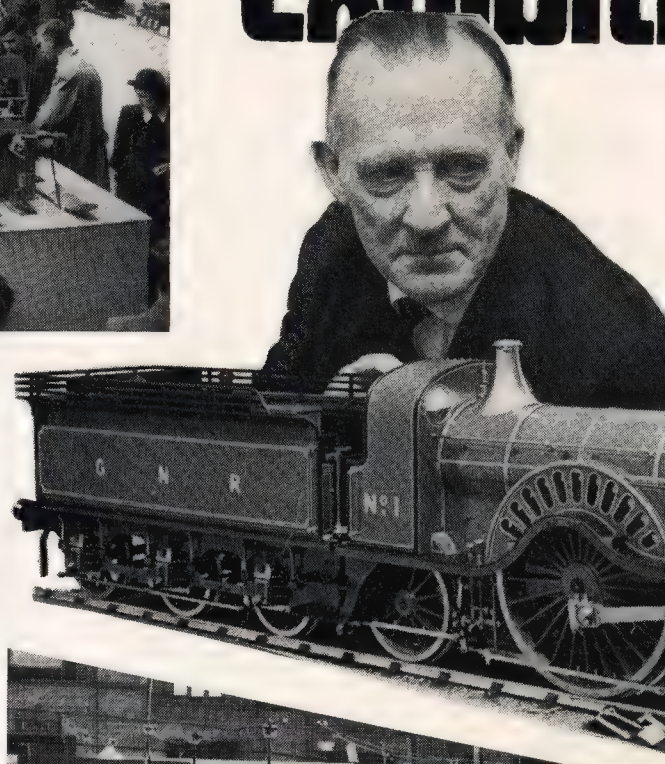


WHEN THE late Percival Marshall founded the *Model Engineer & Amateur Electrician* in 1898, many prophets of doom shook their heads — "there would be no demand for articles on models", they said, "and the magazine would quickly fold". But they were soon proved wrong, for as we all know, *Model Engineer* prospered almost from the first issue, and has now been in practically continuous publication for 80 years, an outstanding achievement by any standards.

Exactly the same happened over the first model exhibition — the "Model Engineer Exhibition" of 1907 — the pessimists of the time assured us that the hobby could not stand the expense of a big public exhibition, and there would be little support from the Trade. Again they were quite wrong; the Exhibition was a resounding success, with excellent support from the Trade, and it was followed by another Exhibition in 1909, again in 1911 and 1913, though of course the Great War of 1914-18 put a temporary stop to things, and the Exhibition was not resumed until 1922.

The Model Engineer Exhibition was well supported in 1923 and 1924, and apart from a gap in 1925, it was held at the Horticultural Hall in London, right up to 1938. After the Second World War, the Exhibition was again resumed, and was held continuously every year from 1946 to 1960 at the same Hall, with a change to the Central Hall, Westminster, in 1961. A somewhat smaller, but equally successful Exhibition was held at the Cora Hotel, near Euston, London, in 1964, and after the acquisition of the Percival Marshall interests by the Model & Allied Publications Ltd. in 1965, the Exhibition was restored to its former glory at the Seymour Hall, London, in 1967, and it continued to be held there until 1977, when it was transferred to the present venue, the new Wembley Conference Centre.

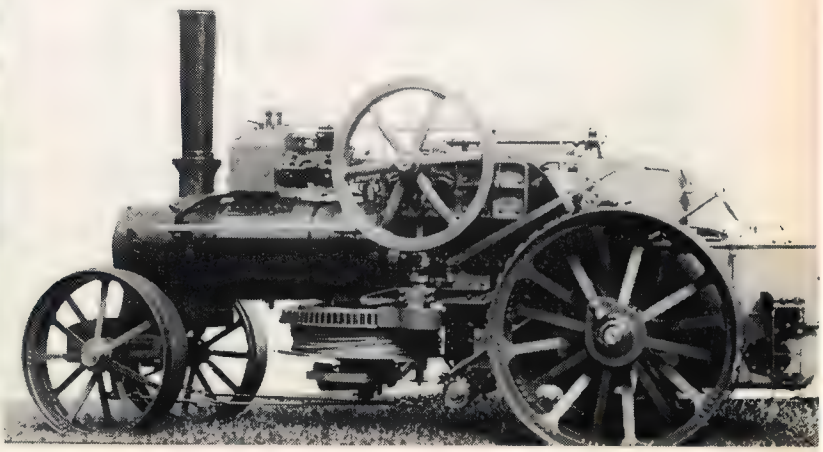
One of the outstanding developments at the Model Engineer Exhibition has been the increase of Cups and Trophies which are awarded. At the 1907 Exhibition, there were three Silver Medals awarded — for a vertical compound steam engine, a 160 watt dynamo and a model sea-going yacht. The first Championship Cup was awarded in 1922 — to the late E. W. Fraser for a model Vauxhall car chassis, the only other awards in that year were several medals and diplomas. Compare this with the great variety of awards that are to be made in the forthcoming Exhibition! This fact alone shows how the hobby of Model Engineering has grown.

Martin Evans

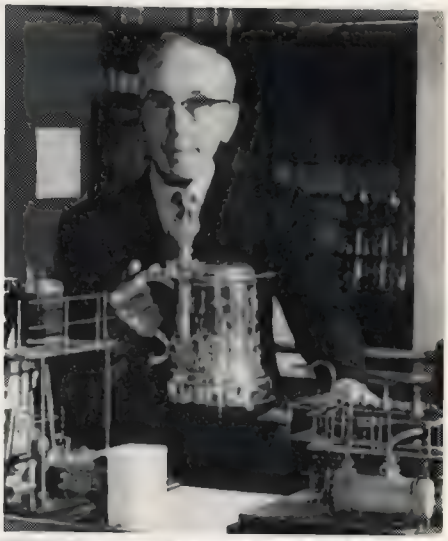
Engineer
ion Longest running Show in town?

The Horticultural Halls, Westminster were the venue for the exhibition over many years (top left and below), introducing indoor model flying and ship models. The ¾ in. scale Stirling single-driver loco by Mr. A. G. Peacock of Wroxham, Norfolk shown here is typical of the many outstanding entries seen over the years.

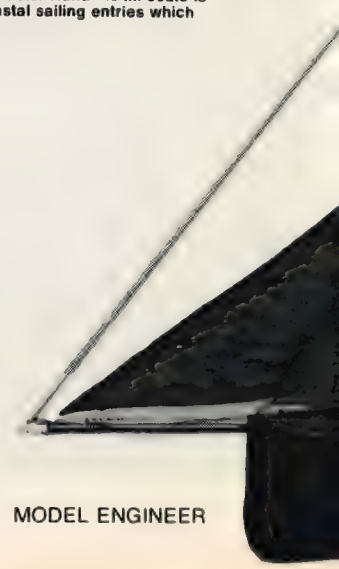
HRH The Duke of Edinburgh was a keen visitor to the ME, and has given his name to the famous Tankard Trophy for the most senior award. He is seen here, accepting a model of HMS Magpie from Kenneth Garcke. Below: Another brilliant model from the earlier shows, a very fine Aveling & Porter ploughing engine by the late Mr. R. C. Stove.

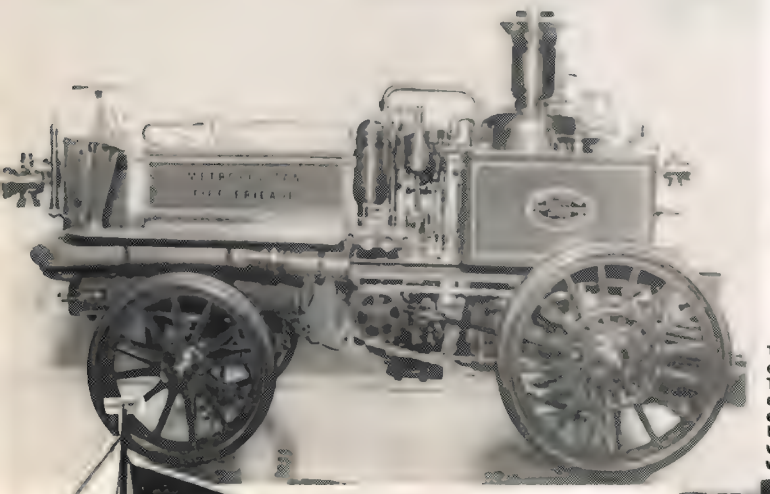


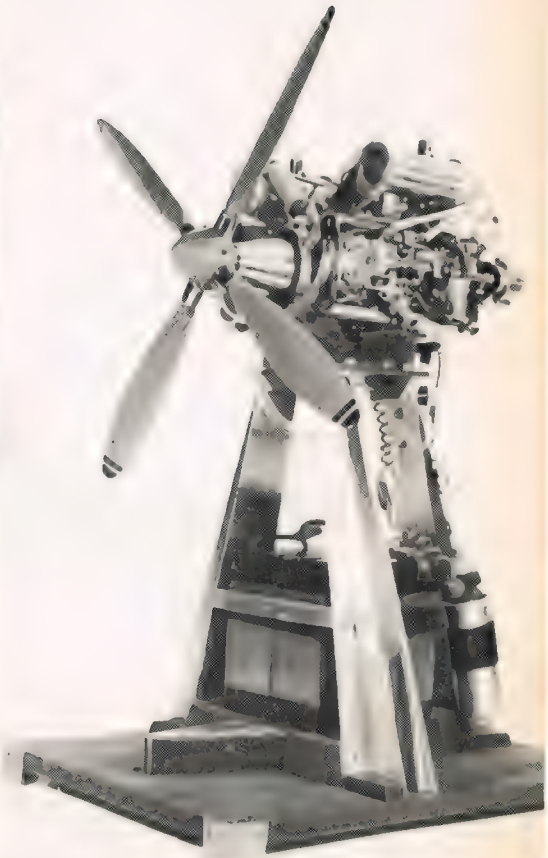
Above: J. Maskelyne (left) talks with the designer of the model "Duchess of Buccleuch", Cyril East. Above right: Edgar Westbury, well known for his internal combustion engine designs and wealth of knowledge in model engineering. Near right: E. B. Wilson with the Duke of Edinburgh Trophy and his triple expansion model in 1958 — 21 years ago. Far right: W. J. Hughes, regular columnist, always involved in judging exhibits and reporting on his experiences — alas no longer with us.



A delight of the past, the gaily decorated stand with many treasures, even then regarded as highly valued — one wonders what price nowadays?? Right: Lowestoft sailing trawler "Master Hand" ⅜ in. scale is typical of the coastal sailing entries which always appear.







Tramways and the steam fire engine compare extremely with the eight cylinder aero engine above. There is always a vast range of interests to follow, each with its intricacies. The ingenuity of the model engineer is as infinite as his patience.
Below: No chauvinism here, Iris Phelps was one lady who won many prizes with her model boats — here with the "Deglet Nour"

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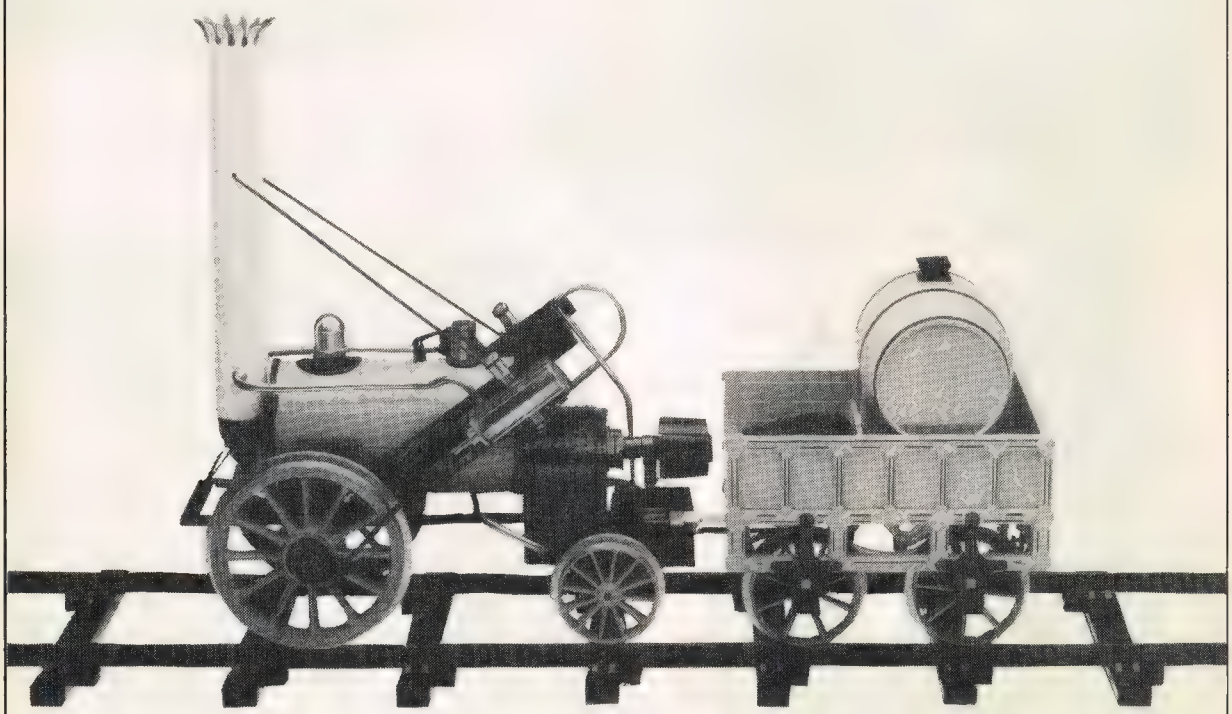

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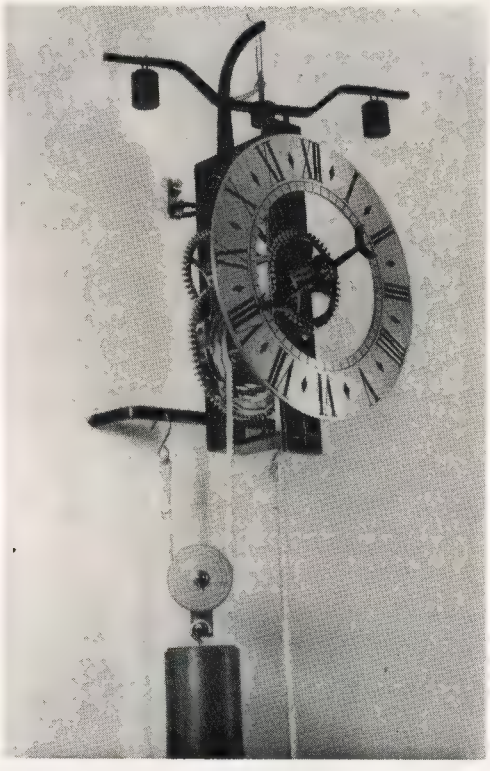

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To introduce his new serial in Horological Journal, John Wilding will be making this clock on a Unimat 3 lathe during the exhibition.

Starting in the December Horological Journal, the serial describes the construction of an early type of clock mechanism using an inexpensive lathe with its standard accessories. The entire construction can be carried out on the Unimat 3, including all the wheelcutting and the making of the lantern pinions. The series is written for the newcomer in clockmaking and is copiously illustrated (200 photos and 26 line drawings).Copies of the Horological Journal in its new, larger, and more colourful format will be available on the stand, together with subscriptions.

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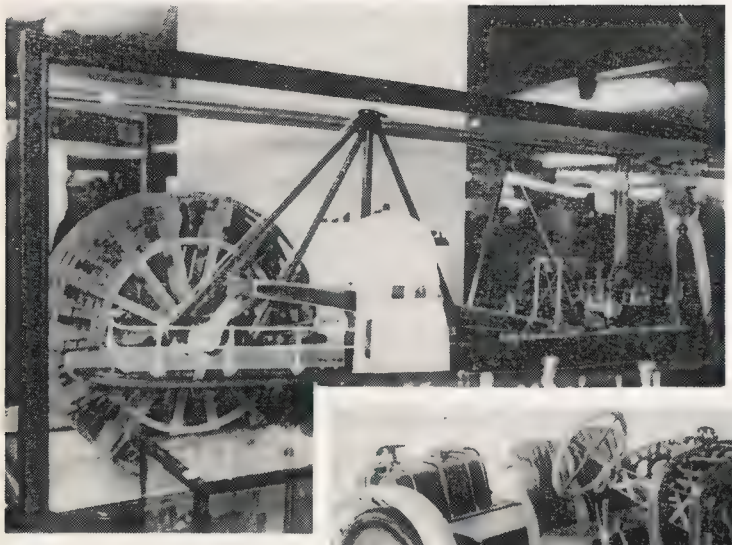
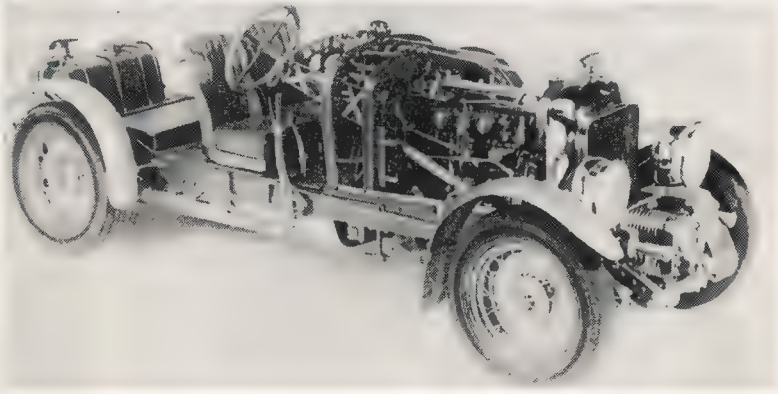


A Year to remember

— Les Porter

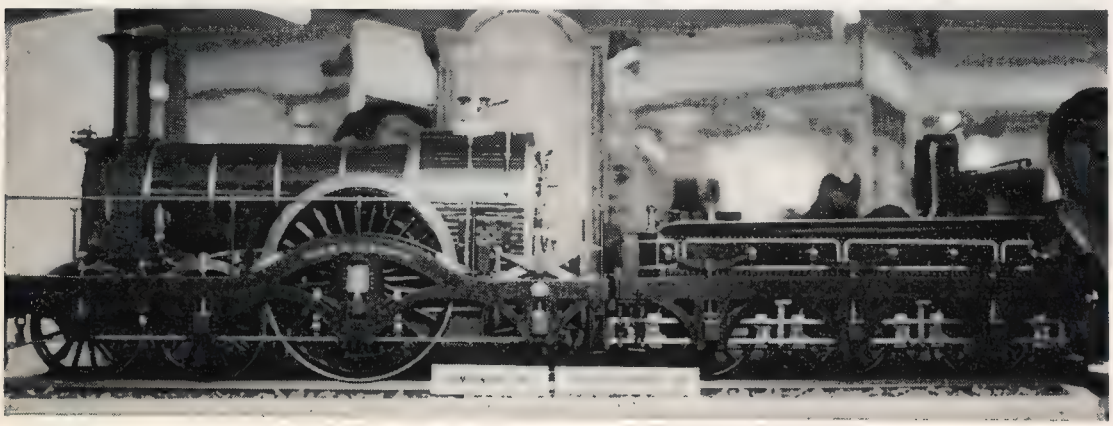


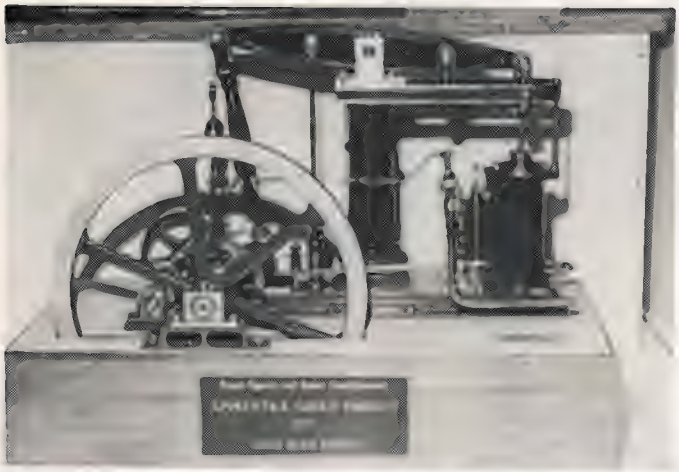
The magnificent starboard engine and stern wheel by G. E. Hartung at the 1978 ME Exhibition. Right: Not completed, but very impressive Bentley by Gerald Wingrove. Below: The Crebbin Memorial Cup and Championship Cup winner of 1978, R. M. Ordish's 7¼ in. gauge model of the 1847 GWR broad gauge 8 ft. single "Lightning".

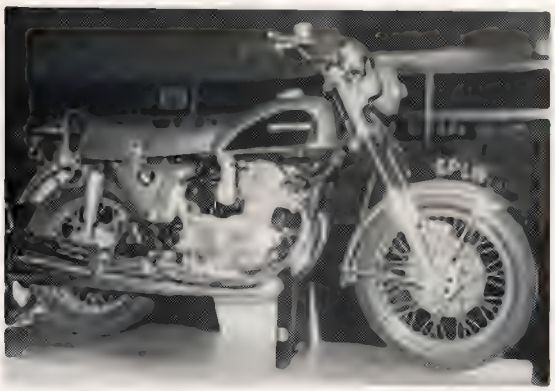
NO, NOT 1898, memorable though that year must be as far as model engineers are concerned. I am referring to 1978, the year when sales of *Model Engineer* magazine topped 35,000 — the highest figure for many years. The achievement is doubly satisfying, firstly, of course, because no publisher wants his sales to drop, and secondly, because the figures gives an indication of the growth in this already very popular leisure activity.

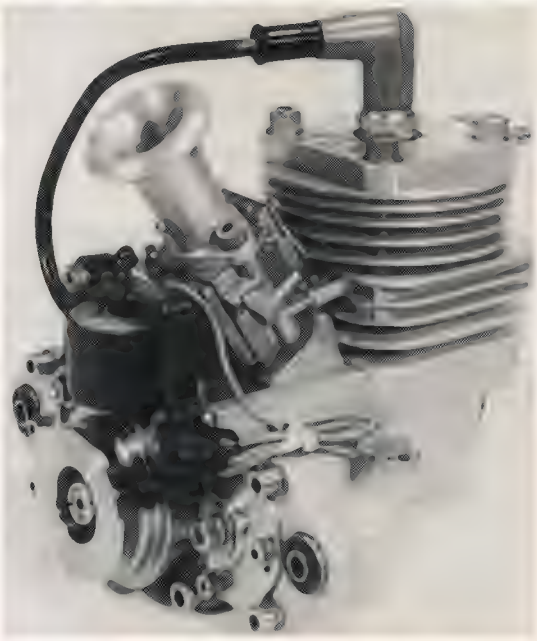
The trend was started about twelve years ago by Martin Evans, my predecessor as Editor of *Model Engineer,* who realised the potential of the magazine and ensured its success by a careful selection of its contents. Because the name of Martin Evans is synonymous with locomotive design in the same way that LBSC carried those honours a few years ago, it was inevitable that *Model Engineer* would be quite heavily biased towards that particular interest. Supported by such eminent personalities as Edgar T. Westbury, K. N. Harris and Bill Hughes, all, regretfully, now no longer with us, Martin Evans guaranteed that model engineers the whole world over would find something within the pages of the magazine to whet their appetites.

But however much we at the editorial offices would like to think that it is through the influence of our magazine — and others of









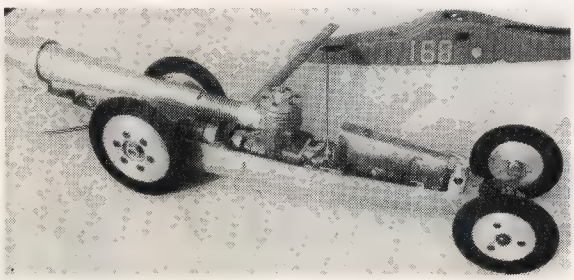
Championship and trophy winners at the 1978 ME Exhibition were "on stage" (TOP) for a happy presentation. The Model Stationary engine built as an Apprentice Group Project by the Royal Signals and Radar Establishment is to 1/12 scale and captures the magnificence of the full size.
Above: A non-working (!) Honda 750 cc. Motorcycle to 1/3 scale by G. Ledster, a symbol of ingenuity throughout.
Right: One of Peter Allen's fine I.C. engines at the 1978 Exhibition, this one the Marine 35 cc. with twin shaft output.

course — that the hobby has grown, we must reluctantly concede that there are other factors involved. Not the least of these is the clubs. This year we have learned of the closure of some clubs but of more importance, we have also heard of the birth of new. It is understandable that there are area changes and model engineering societies which were formed many years ago have now expired through lack of support. But new clubs have been formed this year and I know of at least one which came about because of the enthusiasm generated by the lecturer at an evening class in model engineering. What better place?

ing it as a working model? We owe these magnificent engines to the devotion and labour of such people as Jonathan Minns, the director at Brighton, whose efforts were also directed towards the Eastney project.

In August of this year the Severn Trent Water Authority opened Mill Meece Pumping Station to the public. To many, unfortunately, the time and money spent on preservation are a waste. One does not include model engineers among them.

To cater for the needs of the mill engine enthusiast, *Model Engineer* started a constructional series this year on a piston drop valve mill



Left: The Duke of Edinburgh Trophy winning MV "Machaon" by G. R. Mitchell and above — the proof that tether cars still hold considerable interest as discovered last year.

In addition it is often a condition of ground rental for club tracks that the general public are given the opportunity to attend Open Days and experience the thrill of riding behind a steam locomotive or traction engine which for many of the younger visitors is a rarity to say the least. With the increasing activity of the Preservation Societies, which seek to maintain in operational condition many of the old mill and pumping engines, it is not surprising that what was once a locomotive dominated interest has become much more varied in tastes. Of these engines this year has seen the opening of a pumping station at Eastney, near Portsmouth, which will rank alongside such other establishments as Brighton and Hove Engineerium, Kew Bridge Pumping Station, Papplewick, the Northern Mill Engine Society's sites, and many others. How can anyone watch, for example, the eighteen-foot diameter flywheel of the massive beam engine at Brighton without visualis-

engine by Alan Haworth and this is to be followed by other designs of this nature. What about the internal combustion engine builders? Since the late Edgar Westbury's writings disappeared from the pages of *Model Engineer,* the number of designs for I.C. engines has been quite low. True, we have had "Mastiff" by Len Mason but there has been nothing like the number of, say, ten years ago. This is about to change, the first indications being, of course, the fine 10 cc. glow plug engine designed by Colin Jones which was fully described in May and June of this year. Len Mason has promised another and Peter Allen, whose engines won just acclaim at the 1978 Model Engineer Exhibition, has promised articles on the design of some of his engines.

One article this year has resulted in more activity through the post or by phone than, perhaps, any of the others. This was Tony Higgins's "Whatever happened to British Tether Racing?" It would appear that in the U.K. alone there are many racing cars of a bygone age lurking in cupboards and in attics just waiting for the day when the interest will be revived. And these models do not all belong to the highly streamlined, excessively powered age of world record breakers, although in this field we do know of certain enthusiasts from the U.K. who are pursuing the developments with a degree of success. The letters and photographs received from car builders of a few years ago all indicate a devotion to scale models without the emphasis on pure speed. That there are many of these model engineers around is sufficient justification to warrant a special section each month and arrangements are under way with Geoff Sheppard for this to be incorporated. The brilliant models by Gerald Wingrove and Bill Broadley attracted far more than the usual gasps of admiration and there is no doubt whatsoever that the model car, which featured regularly in the past, is still as popular and deserves its proper place.

Looking back through this year's issues of *Model Engineer,* a few more outstanding subjects come to mind. Keith Wilson's Bulldog/Dukedog locomotive for 5 in. gauge has been acclaimed not only by the G.W.R. enthusiasts but also by all locomotive builders who prefer true scale in their models. With today's electronic calculators even the scale of 10/113 is no great deterrent. It is not very difficult to estimate the number of models being built from M.A.P. plans because in addition to the number of working drawings sold by our Plans Service, we also know the approximate number of castings sold by the supplier. If Bulldog has proved popular — and we are assured of this by Messrs. A. J. Reeves of Birmingham — then Robin Dyer's Clayton Undertype Wagon has proved even more so, probably because, despite the popularity of this type of model, the pages of the magazine have not been graced with any details in the past. It says much for the patience of *Model Engineer's* readers.

The patience of our maritime fraternity must by now be sorely tried. In 1956 the magazine *Ships and Ship Models* was incorporated into *Model Engineer* and since then too few ship models have appeared. True, our sister magazine *Model Boats* goes a long way to rectify the situation but it is apparent from letters received that it does not go far enough. This brings me to the Paddle Tug "Stella" which was promised at the beginning of the year. Progress has been made on her lines — no easy task with limited information — and I am grateful to those readers whose efforts have enabled me to collect the details I have.

It proves that with a circulation of over 35,000 it takes a great deal of variation to please everybody.

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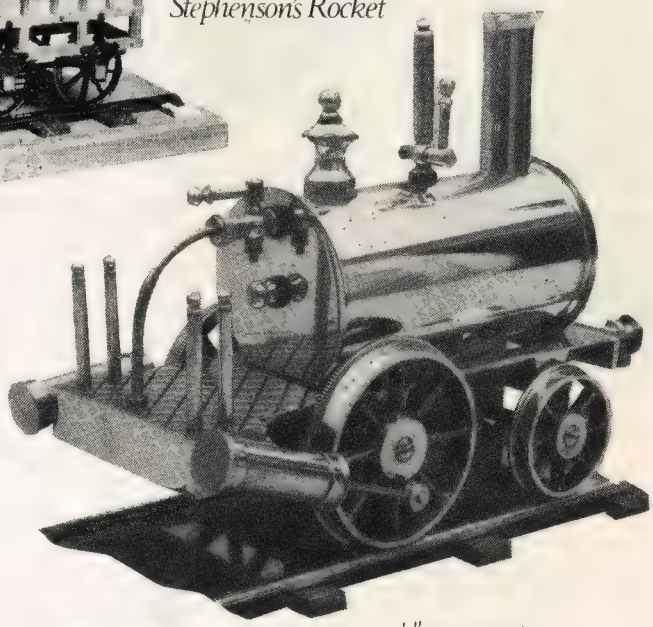
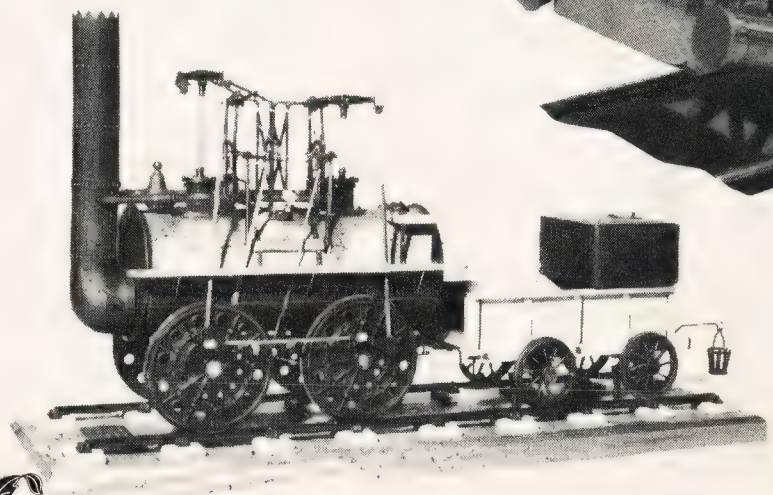
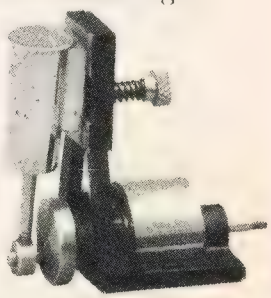


2½" gauge scale model
Birmingham Dribbler



3½" gauge scale model Locomotion

½" Marine Engine



Model Steam Engines, Marine Engines, Traction Engines, Kits & Components
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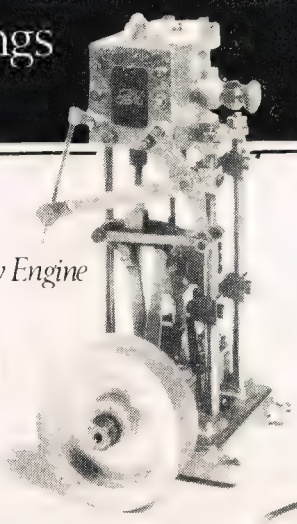
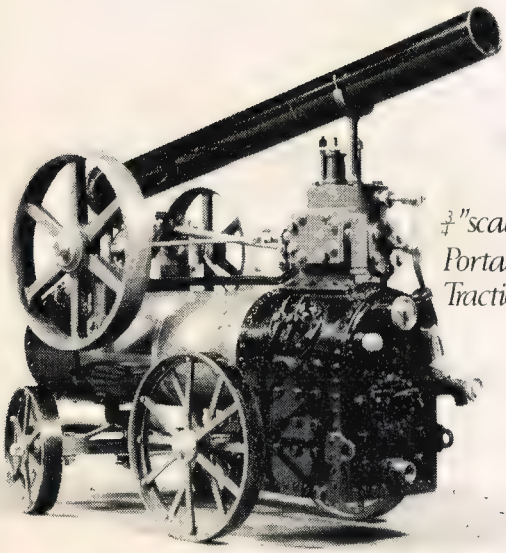
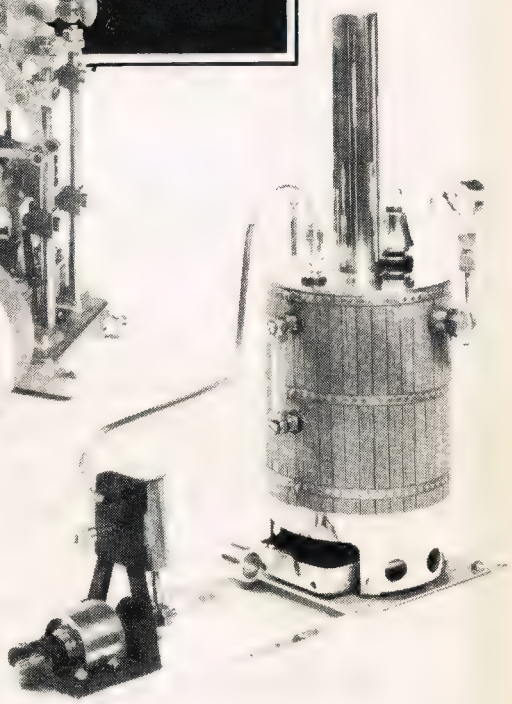


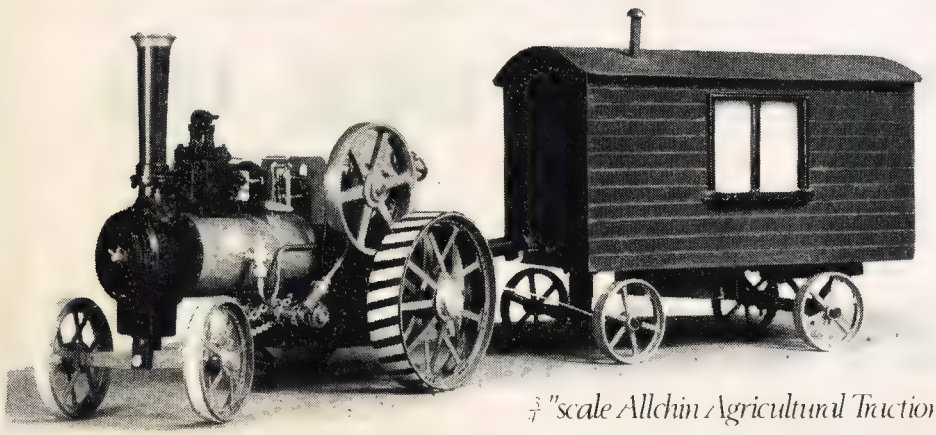
" Marine/Stationary Engine



¾"scale Allchin Portable Traction Engine



½" Marine Engine & Boiler



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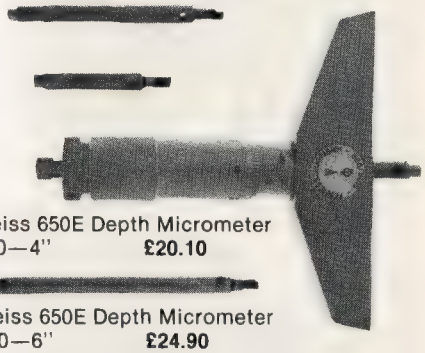

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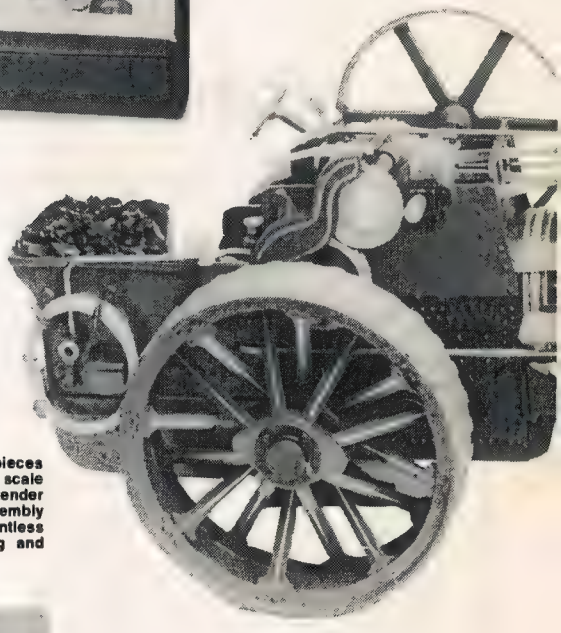
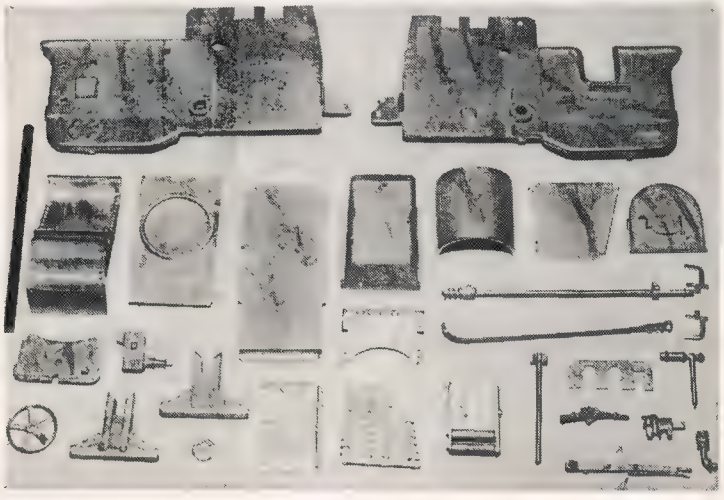


THE STIRRING sight of an Allchin steam engine under way at any of the rallies held each year is enough to inspire model makers. Most visitors to the Model Engineer Exhibition spend much of their time studying the model traction engines in awe of the skills of the engineers that created them and perhaps wishing that they too could make one for themselves. For the majority of modellers such ambition would go unrealised were it not for the latest creation from **Wills Finecast.**

This company has a long pedigree and was among the pioneers of specialised high quality kits in die cast white metal. As long ago as 1962, they launched 1/24th scale car kits, and their locomotives came even earlier. Renowned for the very high quality of their products the welcome release of a 1/32nd scale Allchin Agricultural Engine metal kit can only enhance their well established reputation.

The boxful of neatly diecast pieces (above) makes assembly of this scale replica an easy task. Parts for the tender and firebox boiler make into the assembly sequence (opposite), giving countless hours of pleasure in the making and painting.



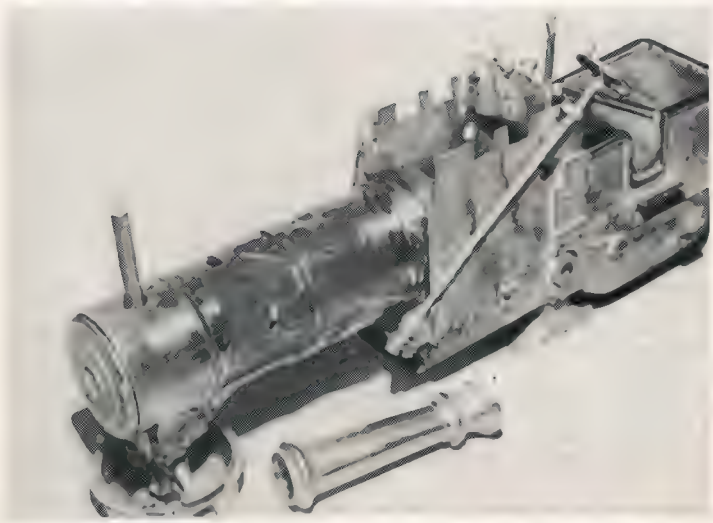
The Kit

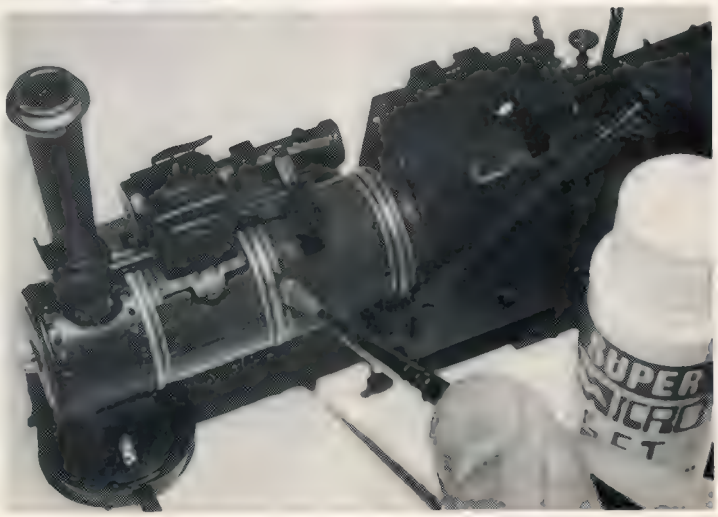
This is a non-working true scale model. Within the large stout box are two full depth polystyrene trays containing countless parts, several sheets of instructions, a colour photo of the completed model and a sheet of brass etched parts. There are six instruction sheets, two carry photos of the model in various stages of assembly, one

of the box

IN to 1/32 scale

Wills Finecast brings of steam within of the fireside

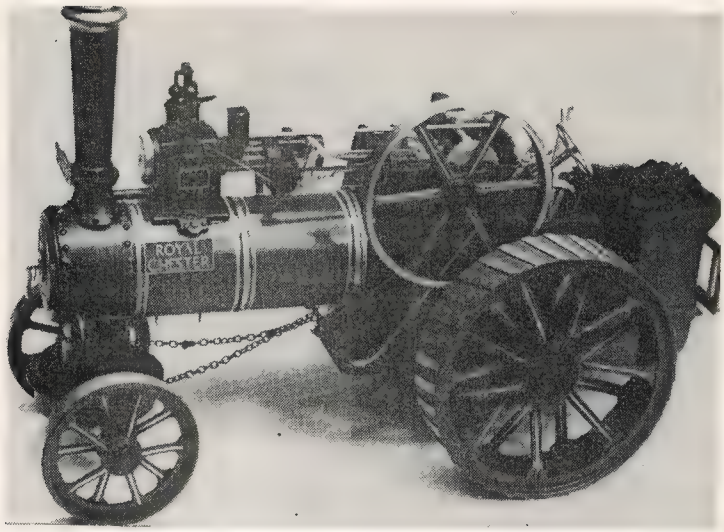




provides tips for making metal kits in general, there is a list of parts plus building instructions, and a sheet of assembly drawings — all numbered and keyed.

Construction falls into five basic sequences, Tender, Boiler, Wheels, Motion and final assembly. Each, part is identified for its relevant section number, i.e. T1, T2 etc, for tender assembly, B1, B2 for boiler etc. At the outset it proves helpful if each part is checked against the drawing and parts listed and sorted into their respective groups. One can mark the trays in the box T, B etc., and place the appropriate parts in them.

Special instructions are provided by the manufacturer for the various



Finished Allchin shows the value of adding trim lines on the wheels and boiler. Below: The next by Wills is their road model with "Rubber" tyres and canopy.

sub-assemblies and we cannot stress highly enough the need to heed their advice.

Construction of a white metal kit is fairly straightforward and even if one is not used to them, there should be few problems.

Tender

Some of the castings need to be filed smooth, to improve the fit, for example, removing the flash between the slats of the tender floor. General tidying up with fine files and wet and dry paper is recommended prior to final cleaning with acetone to remove dirt and grease. Sellotape can be used to hold parts together and Epoxy (quick setting) or Cyanoacrylate adhesive, will cement the white metal well.

Wheels

Assembly of the main wheels appears daunting but really isn't, if a little commonsense is exercised together with a close study of the instructions. The fit of some main wheel spokes leaves a little to be desired as some fit exactly whilst their opposite numbers fail to quite reach the rim. However since rim facings are added, the gaps are not noticeable and careful use of "Cyano" adhesive ensures rigidity.

When the model reaches the final assembly stage it should be airbrushed in matt grey as a primer for the main colours. The parts to be sprayed include flywheel, wheels, partially assembled model and guard. Before painting, all parts are washed in mild soapy water, dried then further cleansed with acetone.

After the primer has had time to really dry, two or three coats of the desired colour are sprayed, (in our case BR red from **Humbrol** railway paints, semigloss), black areas are handpainted and the red base suitably masked whilst doing so.

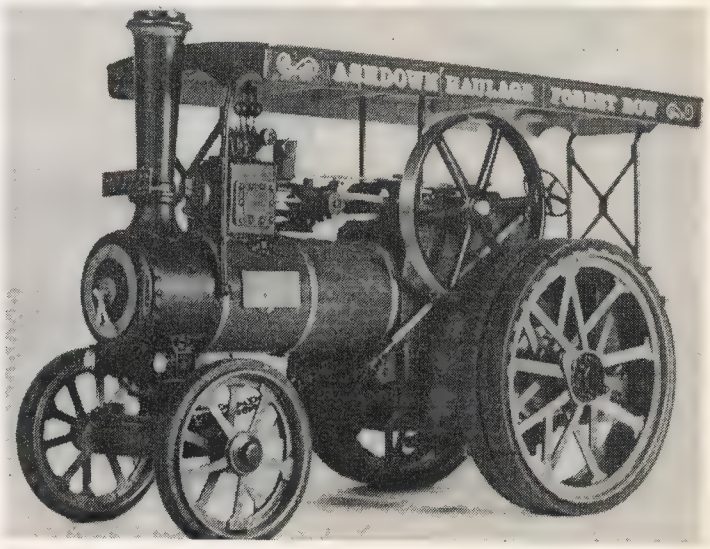
The finish of any steam engine model is the real test as even a cursory glance at our pictures reveal. To recreate the multi-coloured trim lines on a 1/32nd scale model is a task not to be undertaken lightly and we compromised on this. Some old Microscale airliner decal sheets yielded several fine white/red/gold stripes ideal for the boiler, but before application the paint was removed from the brass bands by careful scraping with a small blunt screwdriver.

The stripes were then applied either side of the bands using Microsol. Another search in the decal box revealed thin gold stripes which were cut to length and applied centrally to each spoke. Trim lines around tender we left off, although the signwriter's amongst you, may care to hand paint such decorations, but for ourselves we only managed the latter on part D17 which itself took several attempts.

Final Assembly

Wheels are assembled to the model making sure epoxy is clear of the shaft areas and the instructions are followed for addition of the final parts. Copper pipes are bent and fixed with care.

Then all details are painted and name and number plates added which are all sprayed in the appropriate colour. The relieved lettering is brought out by careful sanding of the outer surface. Final touches are the steering chain, and reproduction coal atop coal box roof which can simply be chips of cork painted gloss black. Some extra fragments can be added to the tender floor and this area and insides dirtied with lead graphite to represent coal dust. When finished is an impressive replica and certainly provided many pleasurable hours for our reviewer, which after all is probably one of the most important factors of modelling. Next release of this kind from Wills is a Showman's Engine.



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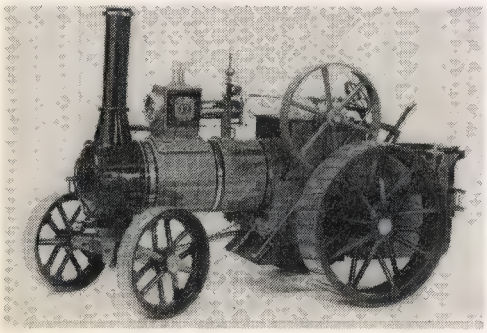

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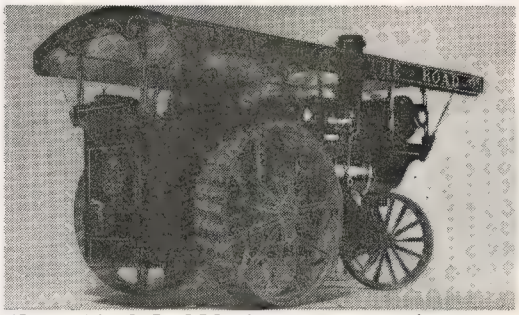

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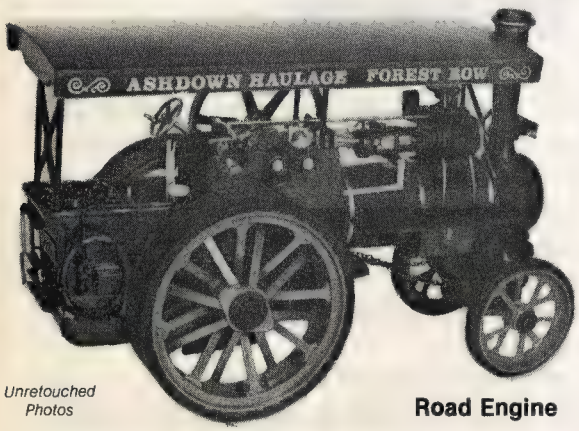

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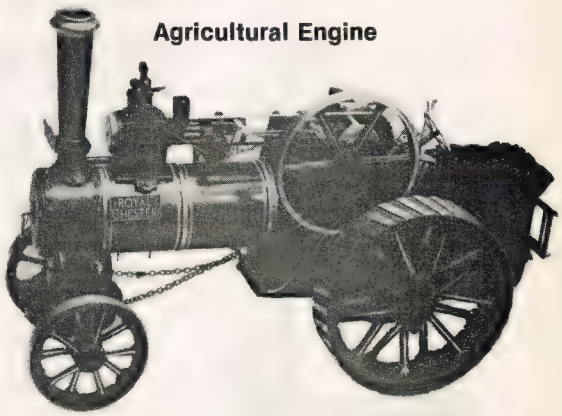
Road Engine

Agricultural Engine



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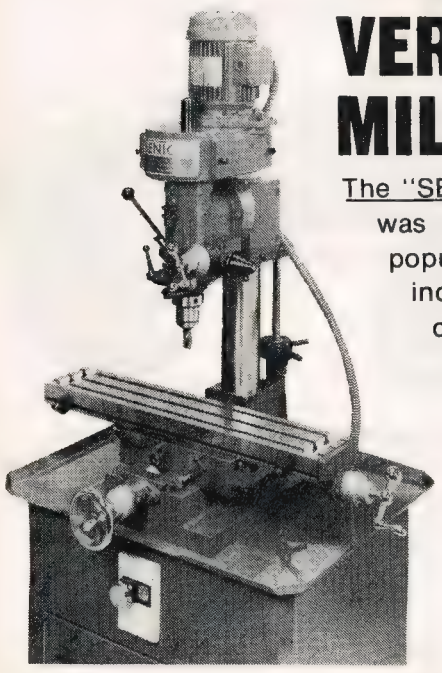

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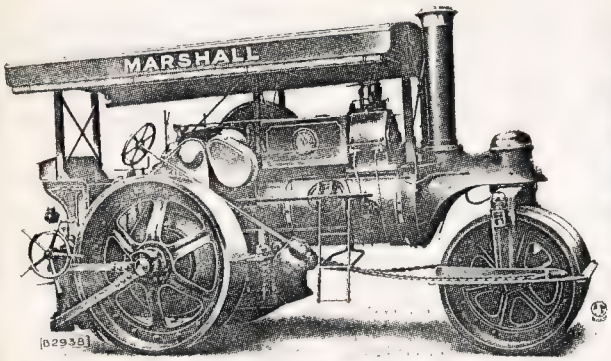

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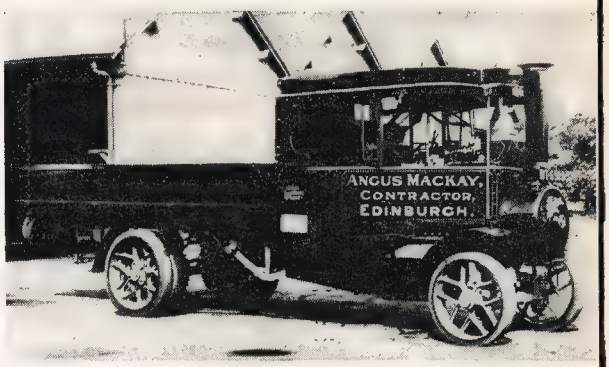

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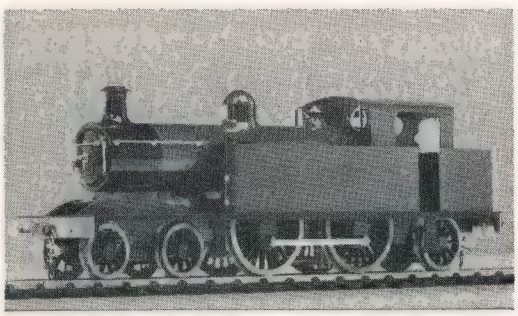

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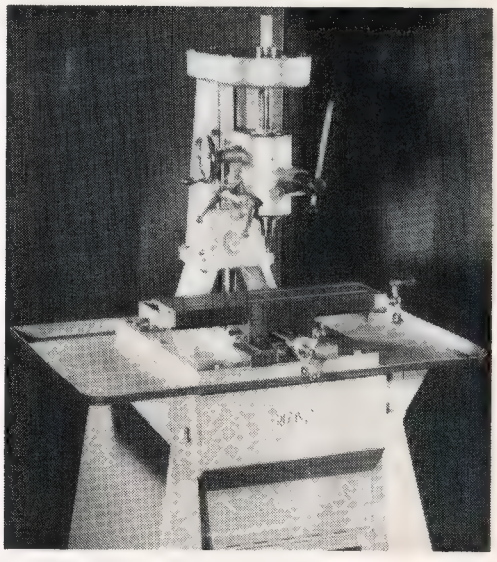

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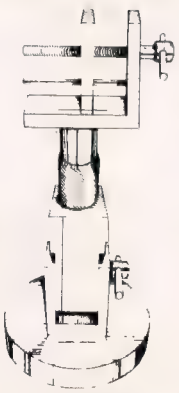

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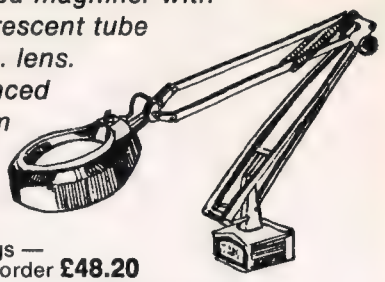

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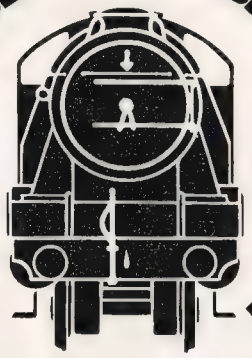

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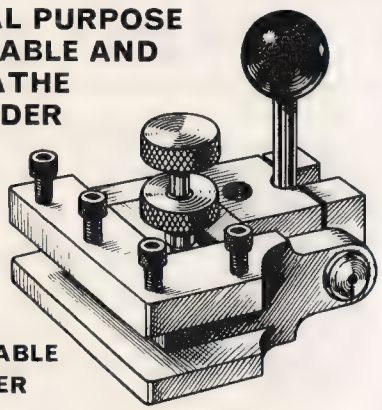

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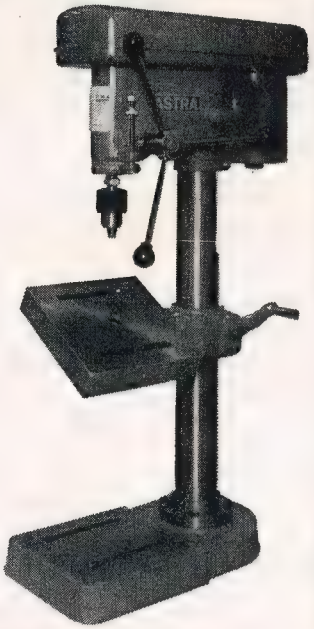

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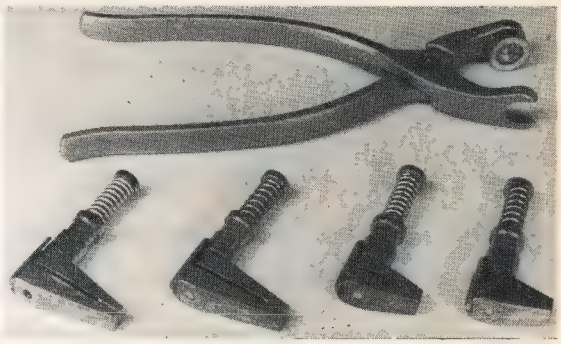

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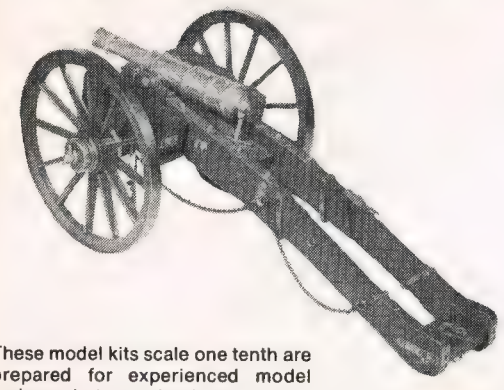

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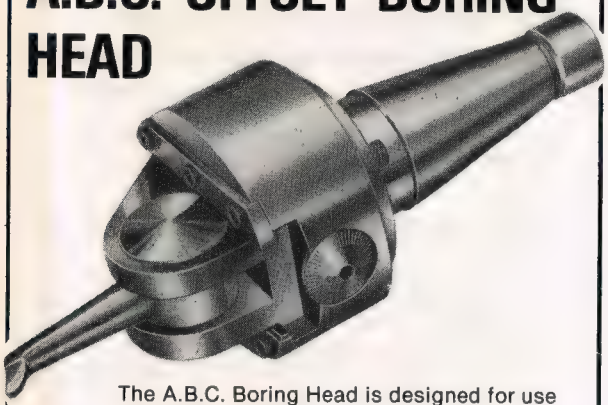

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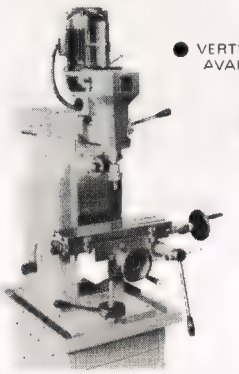

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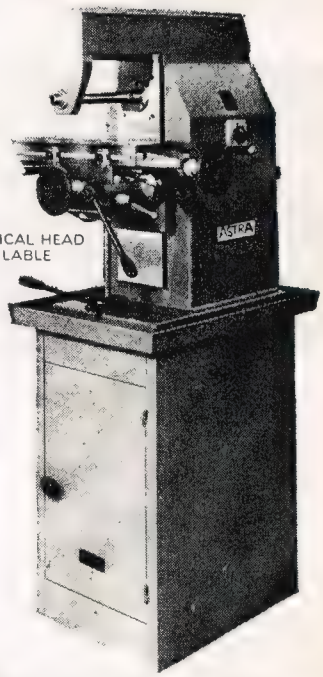

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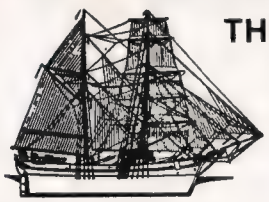

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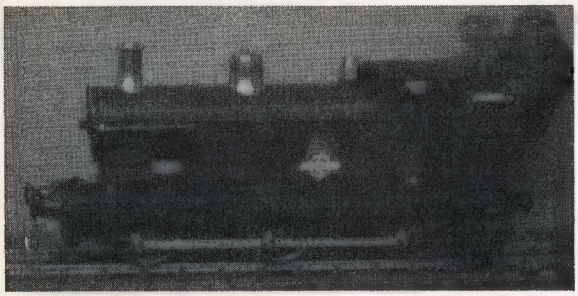

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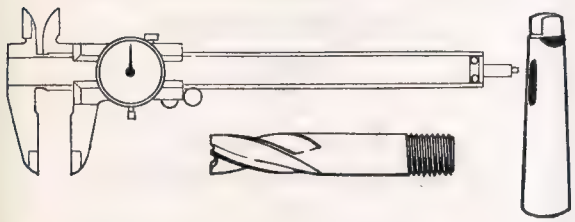

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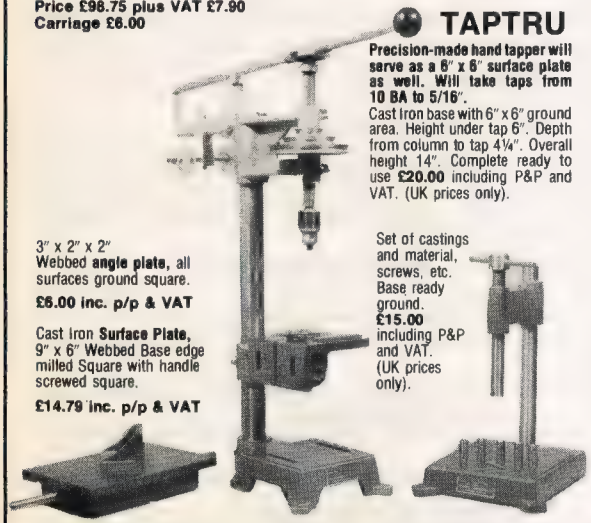

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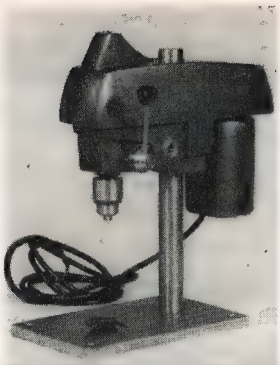

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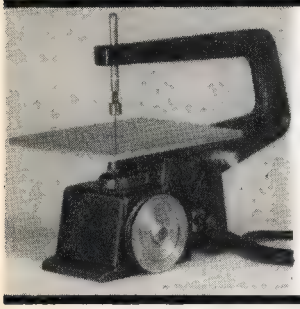

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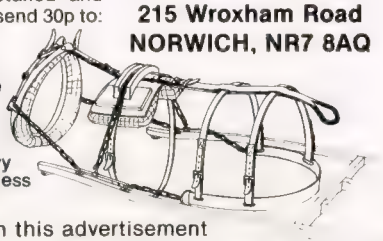

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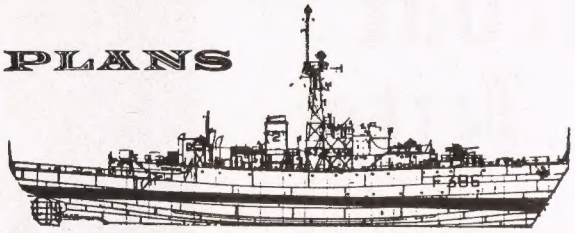

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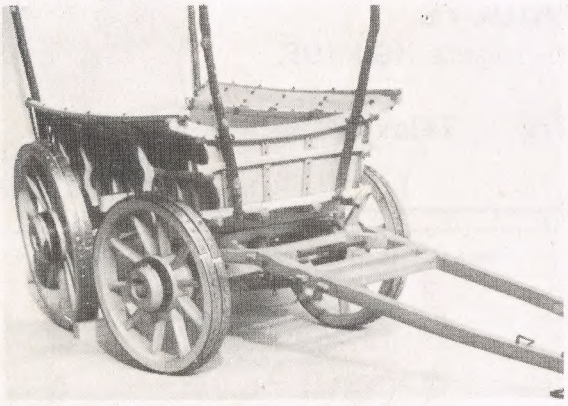

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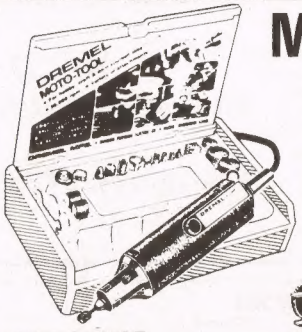

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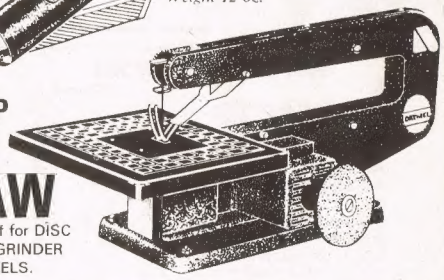

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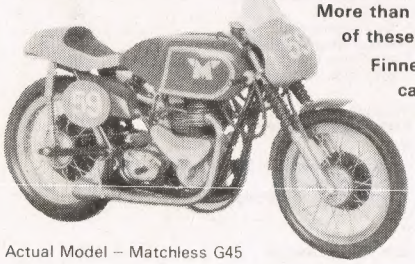

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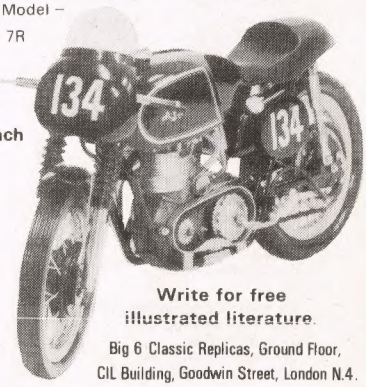

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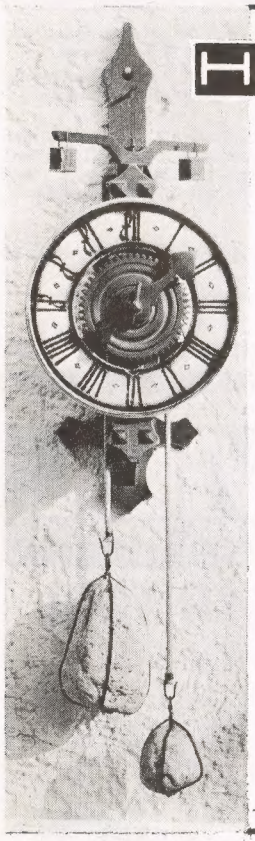

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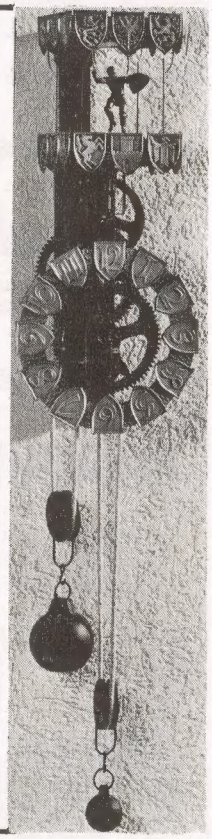

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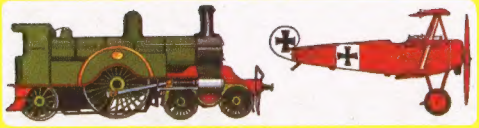

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